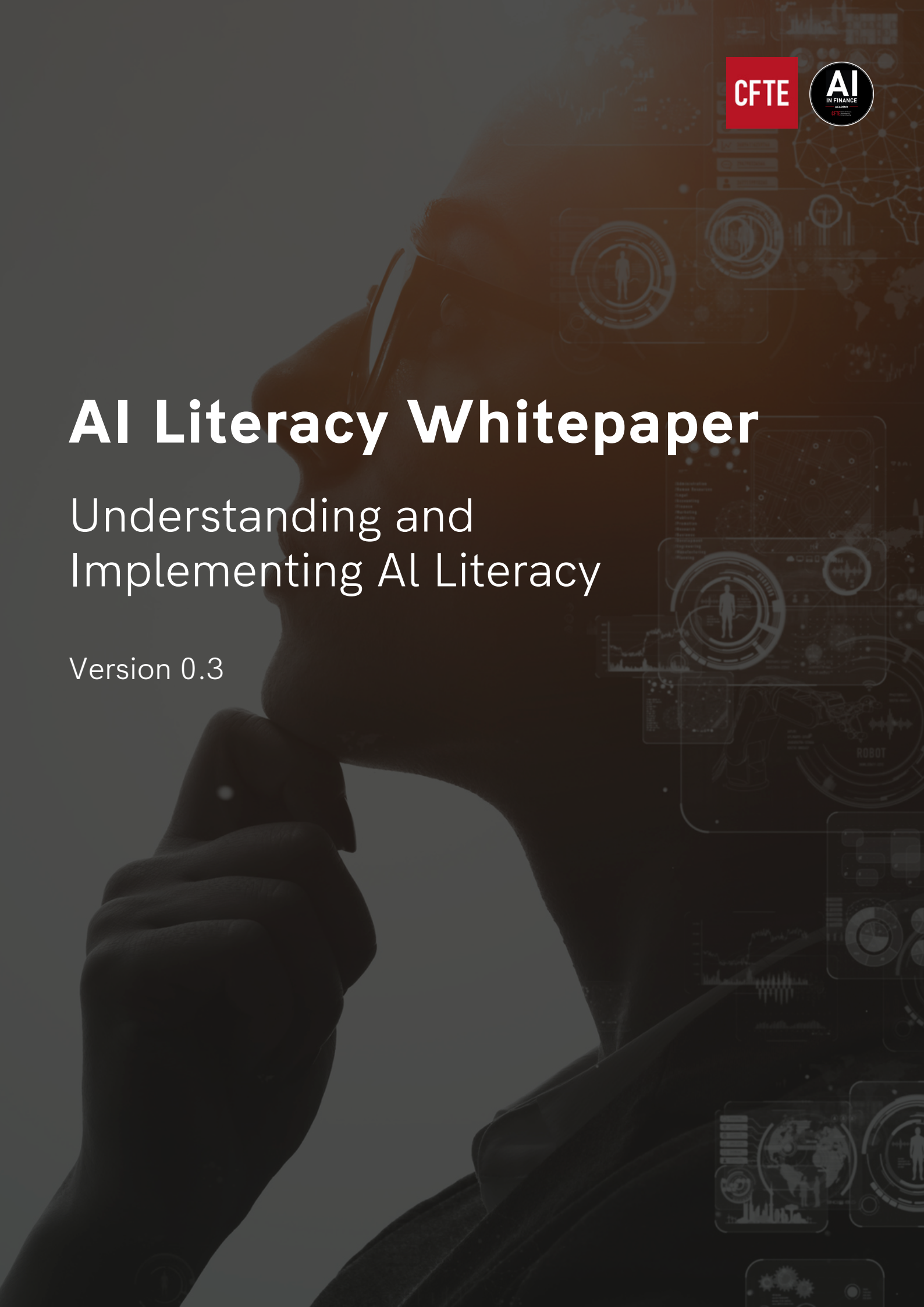


AI Literacy Whitepaper

Understanding and Implementing AI Literacy

Version 0.3

Table of Contents

cfte.education

Before you read...

This whitepaper on "AI Literacy - Understanding and Implementing AI Literacy" is a collaborative effort intended to ***provide insights and guidance on a critical emerging competency***. Like digital literacy, which has proven to yield significant economic advantages, AI literacy is expected to have a profound impact on career growth and organisational success. Professionals in high-digital roles earn more than twice annually compared to those in low-digital roles.

This document is **Version 3 and the first update of 2025**, reflecting the latest developments in AI literacy. It has been u**pdated based on feedback from industry leaders, experts, and policymakers** to ensure its relevance and applicability across sectors. While every effort has been made to ensure accuracy, this paper serves as a foundational guide rather than an exhaustive analysis.

This whitepaper remains open to feedback and collaboration, encouraging continuous dialogue about the role of AI literacy in shaping the future workforce. Readers are invited to engage with the insights presented here and contribute to the evolving conversation on AI literacy implementation.

Readers are encouraged to consider the perspectives within this paper as part of an ongoing dialogue about AI literacy's role in shaping the future workforce.

Executive Summary

As AI continues to integrate into industries worldwide, defining **AI literacy** and ensuring effective tool adoption have become a critical challenge. With regulations evolving and penalties for non-compliance becoming more stringent, it is essential for the modern workforce to understand AI—not just in terms of its technical applications, but also its ethical, operational, and societal implications. This whitepaper, driven by CFTE's commitment to thought leadership, aims to clarify what AI literacy entails and how it can be implemented across industries.

AI literacy is more than just knowing how to use AI-powered tools. It encompasses understanding how AI systems work, recognising their limitations, and ensuring they are used ethically and responsibly. As new regulations emerge, organisations that fail to equip their workforce with these skills or they face the risk of penalties and reputational damage. Employees across all sectors—from finance officers and salespeople to utility workers —are now dedicating significant portions of their workdays to using digital tools, especially AI or Generative AI that demand digital proficiency. To address this, CFTE seeks to provide clarity on AI literacy and guide industries through the complexities of AI adoption.

This paper introduces a practical framework for **implementing AI literacy within organisations**. By focusing on structured training, critical thinking, ethical considerations, and continuous upskilling, businesses can ensure their teams not only comply with regulations but also leverage AI for innovation and competitive advantage. The framework is designed to be adaptable, supporting various industries in fostering a workforce that is both AI-literate and future-ready.

Did you know that according to the EU AI Act, you have to mention if you have used generative AI for creating content, images, etc. ?

So, yes, this paper has also used such generative ai tools to create text for this paper however the ideas and thoughts remain unique with human brains behind.

Introduction

The Urgent Need for AI Literacy: Empowering a Workforce for a Digital Future

Introduction

In November 2022, **ChatGPT gained 1 million users within just 5 days of its launch**, and now, 2 years later, it has **200 million weekly active users worldwide** (Backlinko, 2024). Suddenly, everyone became aware of AI, interacting with it through personal use, internal AI tools in workplaces, or via Bring Your Own AI (BYOAI) solutions. The number of AI tool users is expected to keep growing, surpassing 700 million by the end of 2030.

AI is no longer just a futuristic concept. It's here, and it's everywhere—quietly working behind the scenes in almost every part of our daily lives. As people begin forming relationships with AI systems, this interaction has the potential to significantly boost productivity and economic gains. What started as experimental technology in research labs has quickly become a core tool for industries like healthcare, finance, retail, and manufacturing. Whether we notice it or not, AI is influencing the way we shop, the services we use, and even the decisions businesses make on our behalf.

Think about the personalised recommendations you get while shopping online or the way your bank can spot suspicious transactions before you do—that's AI at work. In hospitals, AI helps doctors diagnose illnesses faster, while in stores, it predicts what customers want, making shopping more personalised. AI is helping companies streamline their processes, reducing errors and speeding up operations. And this is just the beginning—AI adoption is expected to skyrocket **from 45% in 2022 to 85% by 2025**. In finance alone, the AI market is projected to hit over **$22 billion** by 2026. (Grandview Research, 2024)

But as AI becomes more widespread, we're also facing new challenges.

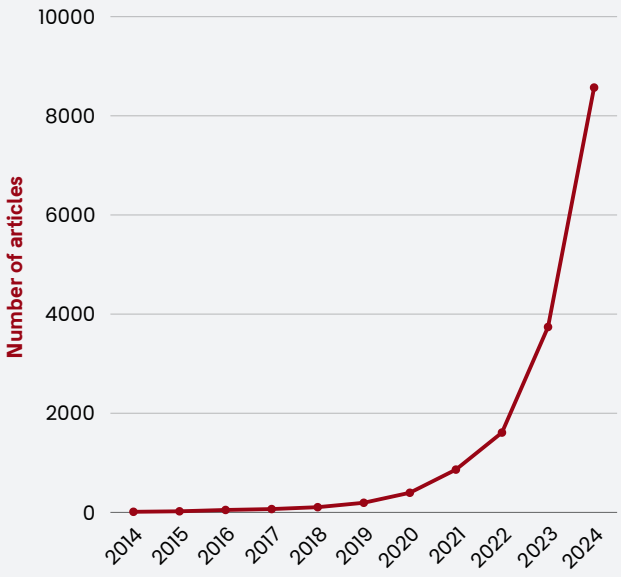
Is this widespread adoption enough?
Are people equipped with literacy using AI correctly and effectively?
Do companies have the right AI strategy across all levels?

The world is digitalising at an unprecedented rate, with over 90% of jobs in Europe now requiring basic digital skills (EU, 2023). Taking it a step further, the Marketing AI Institute projects that the future of work will increasingly be shaped by human-machine collaboration, with at least 80% of tasks performed by knowledge workers involving some level of AI assistance within the next 1-2 years.

AI is no longer something only tech experts deal with. It has become a part of daily tasks and essential skills for professionals across various industries, often without them even realising it. Yet, in our conversations with industry leaders, a common theme keeps coming up: many people are using AI without fully understanding how it works or the implications it carries.

The real challenge lies in ensuring that AI is utilised responsibly and efficiently. This is where AI literacy becomes crucial. It's not enough to just know how to use AI-powered tools; we need to understand what's happening behind the scenes. Without this knowledge, there's a risk of blindly trusting AI's decisions, sometimes leading to mistakes or even ethical issues. By fostering a workforce that's not only skilled in using AI but also capable of critically evaluating its outputs, we can unlock AI's true potential while avoiding its pitfalls.

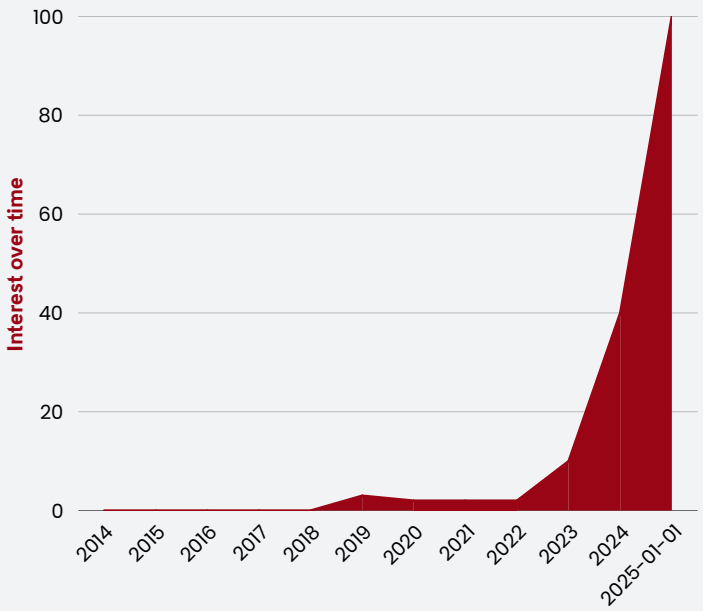
Number of articles mentioning "AI Literacy" increasing dramatically from 2014 - 2025



Source: Google Scholar, Feb 2025

Interest in the term "AI Literacy"

Numbers represent search interest relative to the highest point on the chart for the given region and time. A value of 100 is the peak popularity for the term. A value of 50 means that the term is half as popular. A score of 0 means that there was not enough data for this term.



Source: Google Trends, Feb 2025

The Growing Demand for an AI-Literate Population

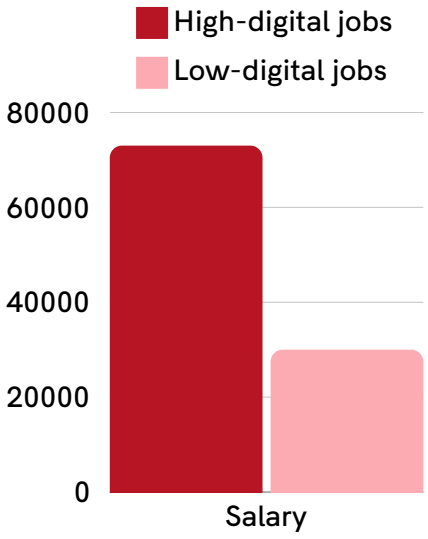
As Artificial Intelligence (AI) becomes a part of almost every aspect of modern life, the need for widespread AI literacy has never been more urgent. No longer limited to research labs or technical experts, AI now influences our daily experiences—often without us even realising it. From the algorithms curating content on social media to the systems managing healthcare and financial services, AI quietly shapes the information we consume and the decisions we make. But with this growing influence comes a significant risk: the rise of misinformation and disinformation. In this landscape, understanding ***AI isn't just a nice-to-have—it's essential for everyone, not just specialists.***

One of the clearest examples of AI's potential for harm is the rise of deepfakes—AI-generated videos and audio designed to deceive. These manipulated pieces of content are increasingly convincing and accessible, making it harder to separate fact from fiction. A notable case occurred on September 3, 2024, when a deepfake video featuring the Central Bank governor of Luxembourg and a journalist spread across social media. The video falsely portrayed them as endorsing a fraudulent investment scheme, tricking viewers into believing the scam was legitimate. This incident highlights a dangerous reality: misinformation powered by AI can easily mislead large audiences.

To counter these threats, developing an AI-literate population is crucial. It's no longer enough to passively consume information; individuals must be able to **critically assess** the authenticity of content and recognise when AI is being misused. Whether in professional settings or as everyday consumers of media, people need the skills to question AI-driven outputs, identify manipulated content, and use tools to verify information. Without these skills, we risk becoming increasingly vulnerable to misinformation, particularly as ***AI-generated content blurs the line between what's real and what's fabricated.***

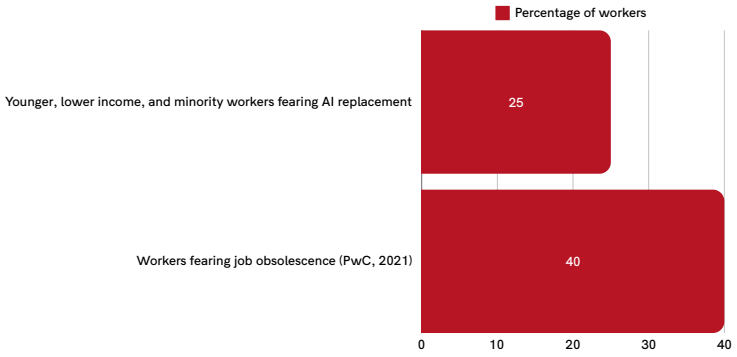
AI literacy goes beyond spotting deepfakes. It's also about understanding the broader social impacts of AI. From biassed algorithms affecting job applications to AI systems that may worsen inequalities in healthcare or finance, knowing how AI works—and where it can go wrong—is essential for holding companies and governments accountable. A population that understands AI will be better positioned to demand transparency, advocate for fairness, and push for ethical AI use in high-stakes areas like hiring, policing, and justice.

Take the Luxembourg deepfake incident as a case in point. If more people had the knowledge to detect that something was off in the video, the damage caused by the misinformation could have been mitigated. This underscores a critical truth: widespread AI literacy isn't just about understanding technology—it's about safeguarding society from the risks AI can introduce when misused or misunderstood. Other important aspect of having an AI literate professional is upskilling. In practice, people with higher digital skills have seen significantly better wages compared to those with non-digital skills. For example, professionals in high-digital jobs earned an average salary of around **$73,000 per year**, whereas those in jobs with low digital content earned just **$30,000 on average**. This disparity is not just about higher earnings; it also reflects the broader economic impact of digital skills. Professionals proficient in digital tools have access to more opportunities and are less susceptible to automation. (Brookings, 2017)



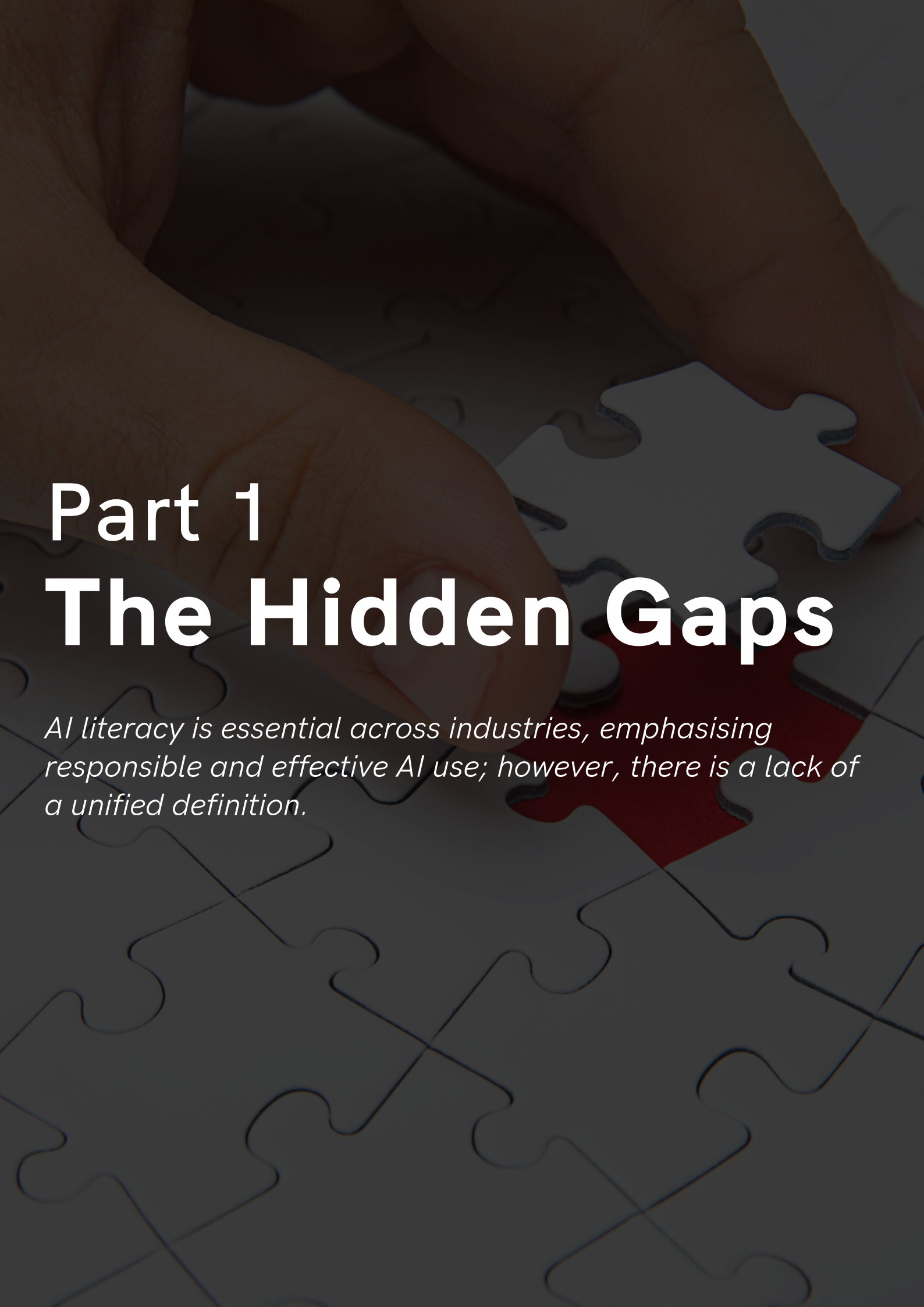
As AI transforms industries, digital skills are becoming a key differentiator in career stability and earnings. However, the gap between AI-literate professionals and those lacking digital proficiency is widening. A 2021 PwC study found that 40% of workers fear their jobs will be obsolete within five years, and for younger workers, workers of color, and lower-salaried employees, this fear is even more acute, with a quarter believing AI will replace them entirely. This rising anxiety - often called **FOBO (Fear of Becoming Obsolete) -** demonstrates the urgent need for AI literacy as a workforce imperative. Instead of seeing AI as a threat, professionals must be equipped with AI-ready skills to adapt, collaborate with AI, and future-proof their careers.

FOBO: Fear of Becoming Obsolete in the Age of AI



What's even more critical is the speed of this shift. While the transition to a digital economy took nearly 20 years with the rise of the internet, the influence of AI and advanced digital technologies is happening at a much faster pace, with similar wage gaps and job impacts emerging in just a few years
This rapid acceleration underscores the urgency for professionals to acquire digital competencies. The gap between digital and non-digital skills is widening, and individuals without digital fluency risk falling behind in a labour market increasingly dominated by technology.

Thus, in today's rapidly evolving economy, ***having AI literacy is not just advantageous—it is becoming essential for securing higher wages and maintaining job security***. It equips individuals to navigate a complex digital age where reality is increasingly shaped by algorithms, and helps ensure that we remain in control of the technology shaping our lives. AI literacy includes the ethical, practical, and technical aspects that are essential for organisations to maximise the benefits of AI while minimising risks.



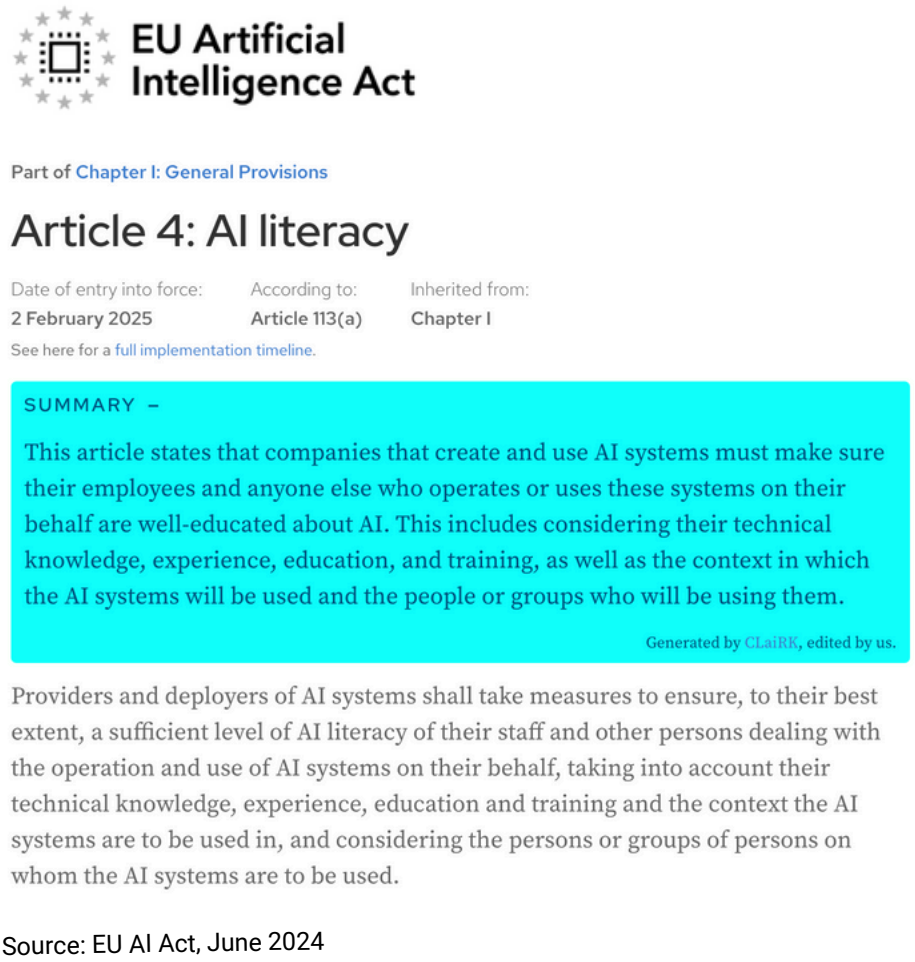
Part 1
The Hidden Gaps

AI literacy is essential across industries, emphasising responsible and effective AI use; however, there is a lack of a unified definition.

The Ambiguity in Definition

One reason AI literacy is hard to define is that it means different things depending on the context. For example, the EU AI Act defines it through a legal and ethical lens, focusing on transparency, fairness, and accountability, especially in high-risk AI applications.

On the other hand, UNESCO's definition of literacy is broader and involves the ability to "identify, understand, interpret, create, communicate, and compute." When applied to AI, this could mean knowing how to use AI tools, but also how to interpret their outputs and communicate their implications.



EU Artificial Intelligence Act

Part of Chapter I: General Provisions

Article 4: AI literacy

Date of entry into force: 2 February 2025 | According to: Article 113(a) | Inherited from: Chapter I

See here for a full implementation timeline.

SUMMARY –

This article states that companies that create and use AI systems must make sure their employees and anyone else who operates or uses these systems on their behalf are well-educated about AI. This includes considering their technical knowledge, experience, education, and training, as well as the context in which the AI systems will be used and the people or groups who will be using them.

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Providers and deployers of AI systems shall take measures to ensure, to their best extent, a sufficient level of AI literacy of their staff and other persons dealing with the operation and use of AI systems on their behalf, taking into account their technical knowledge, experience, education and training and the context the AI systems are to be used in, and considering the persons or groups of persons on whom the AI systems are to be used.

Source: EU AI Act, June 2024

This raises an important question: Is AI literacy about creating, deploying, or simply using AI? For developers, it may mean having the technical skills to build AI systems.

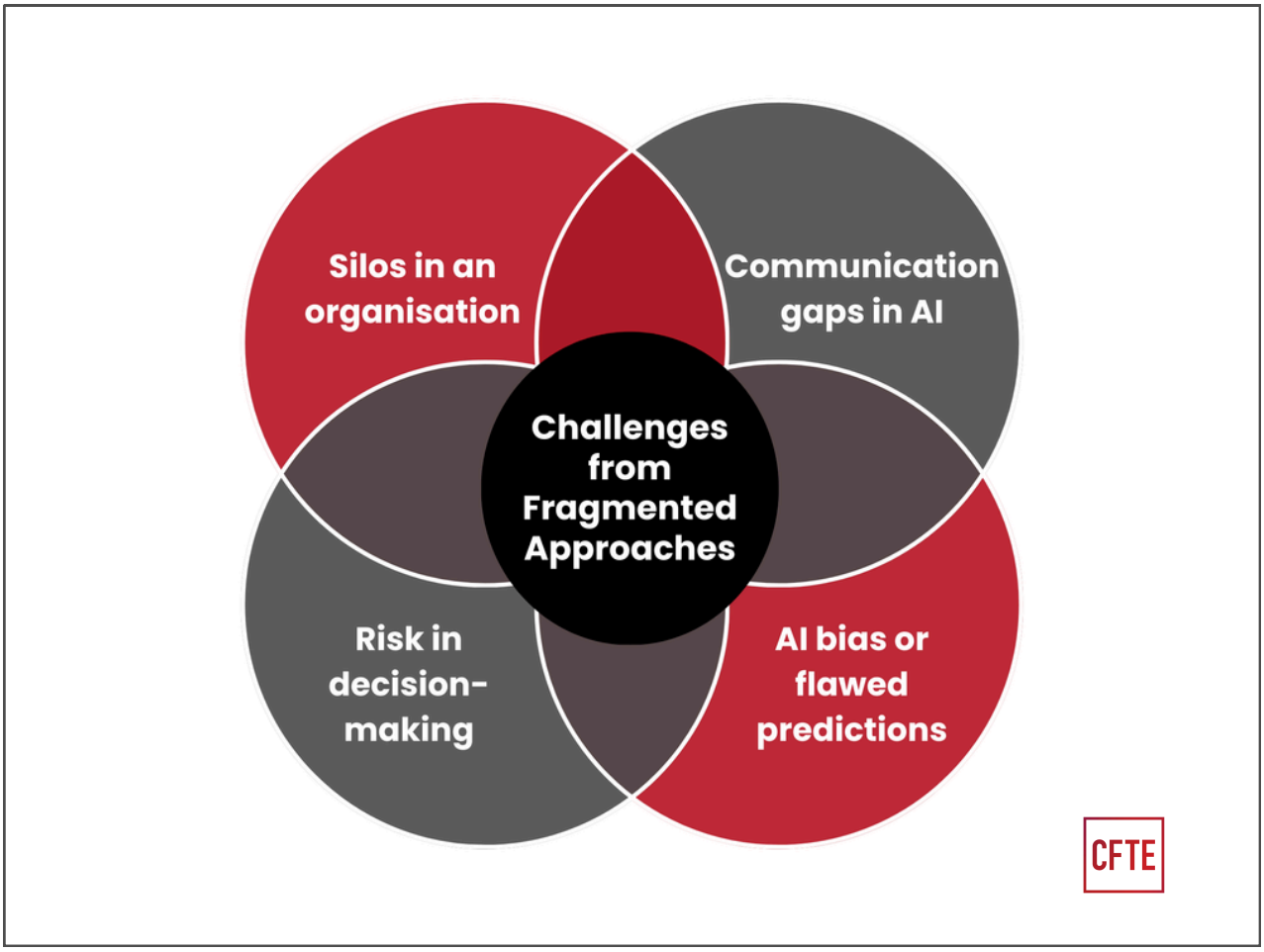
For policymakers, it involves understanding AI's broader societal impacts. And for most professionals, it's about interpreting AI outputs and recognising ethical and operational risks.

Without a consistent definition, companies are left to create their own interpretations, often leaving employees unprepared for the complexities AI brings.

Fragmented Approaches

Achieving AI literacy is not a straightforward journey. Many organisations adopt fragmented approaches, where **different departments train employees in isolation**. Technical teams may understand the inner workings of AI, but non-technical teams might not grasp its broader implications. This siloed approach creates gaps in understanding, leading to poor communication, inefficiencies, and sometimes costly mistakes.

Take the finance industry, for example. Risk analysts might understand the outputs of an AI model, but executives making high-level decisions may not have the knowledge to interpret these results critically. This disconnect can lead to missed opportunities or even financial and legal risks, as AI tools can sometimes amplify biases or produce flawed predictions if they're not properly managed.



Box-Ticking vs. True Understanding

One of the most common pitfalls is when organisations treat AI literacy as a **"box-ticking"** exercise. They may implement the latest AI tools and train their employees to use them but fail to ensure a deeper understanding. ***This surface-level engagement often means that employees know how to use AI but don't fully grasp how it works or what risks it might pose.***

This box-ticking mentality might meet short-term operational goals, but it does little to prepare organisations for the complexities AI can introduce. True AI literacy goes deeper: it's about understanding the data behind AI systems, recognising their limitations, and being able to question AI outputs. It's about knowing when an AI-driven decision could be biased, ethically questionable, or simply wrong.

When organisations treat AI as infallible, serious consequences can follow. Across industries, ***flawed AI implementations have led to biased hiring processes, customer discrimination, and even regulatory breaches.*** These mistakes have cost companies both financially and reputationally. The ability to critically evaluate AI, rather than blindly accept its outputs, is at the heart of true AI literacy.

Part 2
Defining AI Literacy

AI literacy is a vital modern skill, yet defining it is complex. By comparing it to the evolution of other literacies and digital rights movements, we can trace its development and underscore its significance today.

Understanding Literacy in the Traditional Sense (1800s - 2000s)

Traditionally, literacy has been defined as ***"the ability to read and write"*** (Oxford English Dictionary, 19th century). In the 19th and early 20th centuries, basic literacy was the foundation of education and participation in society. Those who were literate had access to knowledge, economic opportunities, and social engagement, while those who were not were left behind.

Over time, the definition of literacy expanded to include not only the ability to read and write but also to understand and interpret information in meaningful ways. According to UNESCO, ***"literacy is the ability to identify, understand, interpret, create, communicate, and compute, using printed and written materials associated with varying contexts"*** (UNESCO, 2004).

Just as the concept of literacy evolved, we can think of AI literacy as not just understanding AI on a surface level, but gaining deeper insights into how AI works, what its outputs mean, and its broader societal impact.

The Evolution of Internet Literacy (2000s-2010s)

In the early 1990s, the rapid rise of the internet sparked the need for internet literacy. In the initial stages, this simply meant being able to access websites and perform basic online navigation. However, as the internet became a more integral part of society, internet literacy grew to encompass much more.

By the early 2000s, it became essential to understand how to evaluate the credibility of online sources, protect one's personal data, and participate in digital spaces. Internet literacy evolved from a basic skill into a necessity for navigating the complexities of the digital world. According to the American Library Association, ***"digital literacy"*** now refers to ***"the ability to use information and communication technologies to find, evaluate, create, and communicate information, requiring both cognitive and technical skills"*** (ALA, 2013).

As we moved into the 2010s, discussions around the right to internet access became more prominent. ***In 2016, the United Nations declared internet access a human right***, recognising its fundamental role in ensuring participation in the modern economy and society (UN, 2016). This shift mirrors how essential AI literacy will become as AI technologies proliferate.

Recognising the evolution of AI as a transformative force in various sectors, ***the EU Commission's Guidelines on Trustworthy AI stress that AI systems must be ethical, transparent, and accountable***. These guidelines also highlight the importance of AI literacy in fostering a society where people understand how AI works, the ethical issues involved, and how AI affects them directly. This is a key consideration in defining AI literacy—it must include the ability to critically engage with AI's ethical and social dimensions (EU, 2019).

The beginning of AI Literacy (2020s)

In 2024, the EU AI Act came into force, signalling a call to upskill in AI literacy in every organisation across different levels and functions. The EU AI Act includes AI literacy requirements under Article 4. To comply with the new legislation, organisations must address the challenge of ensuring AI literacy among their workforce. ***AI literacy encompasses the skills and knowledge necessary for stakeholders from providers, deployers, to individuals to understand the deployment of AI systems, the associated opportunities and risks***.

Providers and deployers of AI systems must take measures to ensure sufficient AI literacy among their staff, tailored to their technical knowledge, experience, education, and the context of AI usage. Starting February 2025, organisations employing AI systems must ensure their staff possess appropriate AI knowledge relevant to the systems' contexts and their potential impacts on different groups.

Did you know that the term "AI literacy" was first defined in academic literature in 2020 by Duri Long and Brian Magerko.
They described it as ***"a set of competencies that enables individuals to critically evaluate AI technologies; communicate and collaborate effectively with AI; and use AI as a tool online, at home, and in the workplace."***

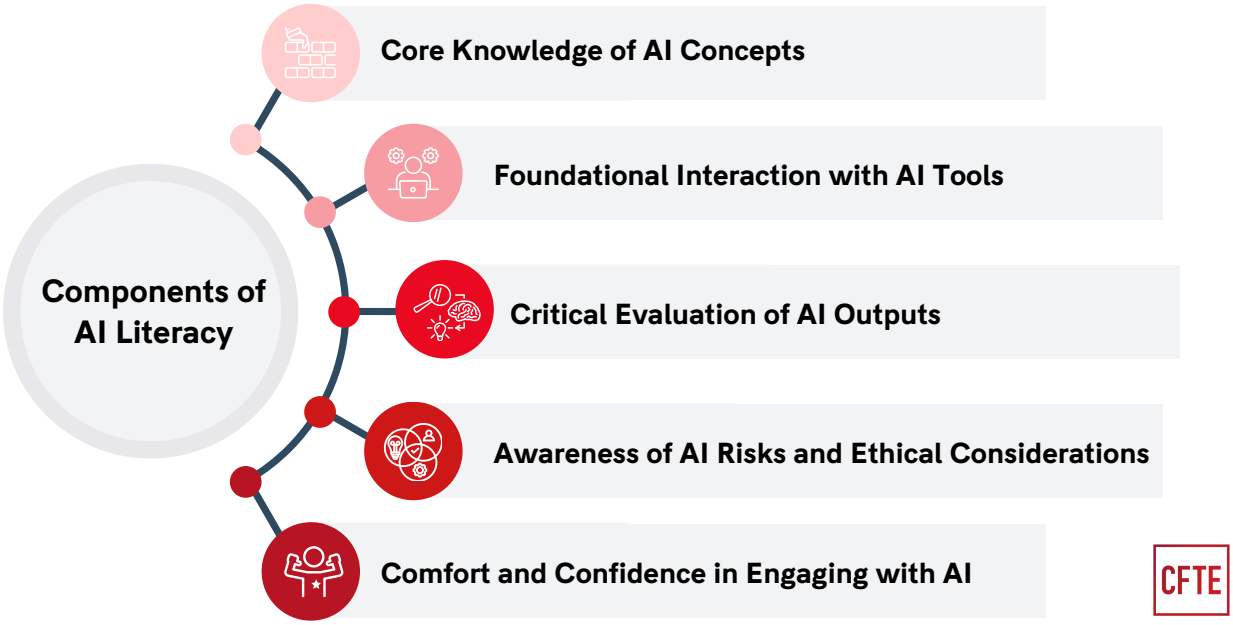
What is AI Literacy?

Just as basic literacy and internet literacy have become essential skills in the modern world, AI literacy is now emerging as a crucial competency. As artificial intelligence increasingly influences our daily lives—shaping everything from the media we consume to the decisions made in healthcare and finance—understanding AI is no longer optional. AI literacy is not a one-dimensional skill; it is a multifaceted ability that touches on the technical, practical, and ethical elements of AI.

By learning from past literary movements and tailoring them to the opportunities and risks unique to AI, we can create a roadmap for what AI literacy should look like in today's world.

"AI Literacy is the ability to understand, evaluate, and confidently use AI technologies, recognising both their capabilities and limitations in personal, professional, and societal contexts. It involves not only practical interaction with AI tools but also critical thinking, informed decision-making, and ethical responsibility"

This definition of AI literacy comprises five core components: **Core Knowledge of AI Concepts, Foundational Interaction with AI Tools, Critical Evaluation of AI Outputs, Awareness of AI Risks and Ethical Considerations, Comfort and Confidence in Engaging with AI.**



1 Core Knowledge of AI Concepts

Just as traditional literacy starts with knowing letters, words, and basic grammar, AI Literacy begins with clearly understanding the foundational concepts of artificial intelligence. This includes **knowing what AI is, being able to distinguish between different types of AI, and understanding its key capabilities and limitations.**

Think of this as understanding how the internet worked in the 1990s. Just as users needed to know what a browser or website was to navigate online, today's AI-literate individuals need to know what AI is, how it learns from data, and what types of AI are at play..

Example: Knowing what AI is, how it learns from data, and recognising the different types of AI technologies is similar to understanding how the internet connected people through a network of computers in the 1990s. Without this foundational knowledge, deeper engagement is impossible.

This foundational knowledge is essential because AI increasingly influences every industry and sector worldwide. A clear grasp of core AI concepts ensures individuals can confidently navigate and adapt in an AI-powered environment, regardless of their technical background.

2 Foundational Interaction with AI Tools

Just as internet literacy involves confidently using digital tools like browsers or social media, AI literacy means effectively interacting with everyday AI-powered applications. This includes **knowing how to prompt AI systems clearly, refine and optimise their outputs, and recognising the strengths and limitations of AI productivity tools.**

AI interaction goes beyond simply using AI tools - it's about leveraging these technologies strategically. Think of it like learning how to effectively use search engines in the early days of the internet. Initially, users searched passively, but over time they learned to formulate precise queries to get better results.

Example: Understanding how to effectively prompt an AI assistant, such as ChatGPT, to generate accurate summaries or helpful responses mirrors how people learned to craft effective search terms for Google. Knowing how and when to refine these interactions ensures more useful, relevant results, saving time and enhancing productivity.

These interaction skills are **progressive**, beginning with basic applications, then expanding to more advanced capabilities - allowing users to steadily build confidence and mastery with AI tools as their needs evolve.

3 Critical Evaluation of AI Outputs

In the early days of the internet, a major challenge became evaluating the credibility of information found online. Today, we face a similar challenge with AI: How do we trust the output of AI systems? Critical thinking is vital in evaluating AI-generated content, understanding potential biases in AI decision-making, and questioning the reliability of outputs.

Critical evaluation is not simply spotting errors - **it's about systematically cross-checking AI outputs with trustworthy sources and recognising patterns of reliability or bias**. Think of it as learning to **distinguish credible online information from fake news**, a skill that became crucial as the internet evolved.

Example: When an AI system provides financial advice or a summary of medical information, an AI-literate user cross-references this with authoritative sources. Just as careful internet users verify critical information, AI-literate individuals confirm the validity of AI-generated content before making decisions based on it.

This capacity to think critically is vital in a world where AI is often seen as a ***"black box,"*** allowing users to make ***informed, responsible decisions*** based on AI output. These evaluative skills are **essential** because AI-generated content is becoming pervasive in daily life and professional tasks.

4 Awareness of AI Risks and Ethical Considerations

Just as digital literacy requires an awareness of online privacy and security risks, AI literacy demands understanding and recognising the ethical implications and risks associated with AI systems. This includes **identifying biases, misinformation, privacy concerns, and promoting responsible AI use in both personal and professional environments.**

Being AI-literate isn't just about knowing what AI can do; **it's equally about recognising what it shouldn't do.** Think of it like understanding online privacy - just as users learned to safeguard their data, AI-literate individuals learn to identify and mitigate ethical risks posed by AI.

It also involves grasping the importance of transparency and accountability in AI, especially regarding data usage and privacy. Users must be aware of how AI can be misused, from mass surveillance to undermining privacy rights, and how regulatory frameworks like EU AI Act aim to mitigate these risks.

Example: Recognising when an AI-powered hiring tool shows bias towards certain groups or understanding the privacy implications of sharing personal data with AI services is similar to identifying phishing scams or privacy threats online. AI-literate users proactively address these issues, advocating for transparency, fairness, and ethical practices.

This ethical awareness is **crucial** as AI becomes integrated deeply into daily decisions. Being able to identify and manage these risks helps individuals confidently and responsibly navigate an increasingly AI-driven world.

5 Comfort and Confidence in Engaging with AI

Just as internet literacy eventually led users to comfortably integrate digital tools into their daily lives, AI literacy involves **feeling confident, comfortable, and balanced in interacting with AI technologies.** This means clearly recognising where AI is being used around us, feeling at ease with its presence, and developing a balanced perspective on our roles in an increasingly AI-driven world.

Comfort and confidence don't just come from frequent use - they emerge from genuine understanding. Consider how people gradually became comfortable managing their banking or social interactions online: initial uncertainty gave way to confident daily use.

Being comfortable with AI means confidently using a virtual assistant to manage daily tasks, knowing how AI recommendations influence choices on platforms like Netflix or Spotify, or appreciating how AI supports tasks at work. Just as we seamlessly integrated online tools, AI-literate individuals embrace AI as part of their daily toolkit.

Developing this level of comfort is **essential**, enabling people not only to benefit from AI technologies but also to shape how they are responsibly adopted, ensuring a healthy balance between AI assistance and human judgment.

Critically, building comfort and confidence with AI ensures professionals are resilient against the growing anxiety known as **FOBO (Fear of Becoming Obsolete)**. When individuals feel informed, skilled, and secure in their AI interactions, they face technological changes confidently rather than fearfully—ensuring they remain relevant and empowered in an evolving workplace.

Part 3
Minimum Criteria to be AI Literate

Discover the AI Literacy Framework that defines universal, scalable criteria, empowering informed, ethical participation in an AI-driven world.

Minimum Criteria to be AI Literate

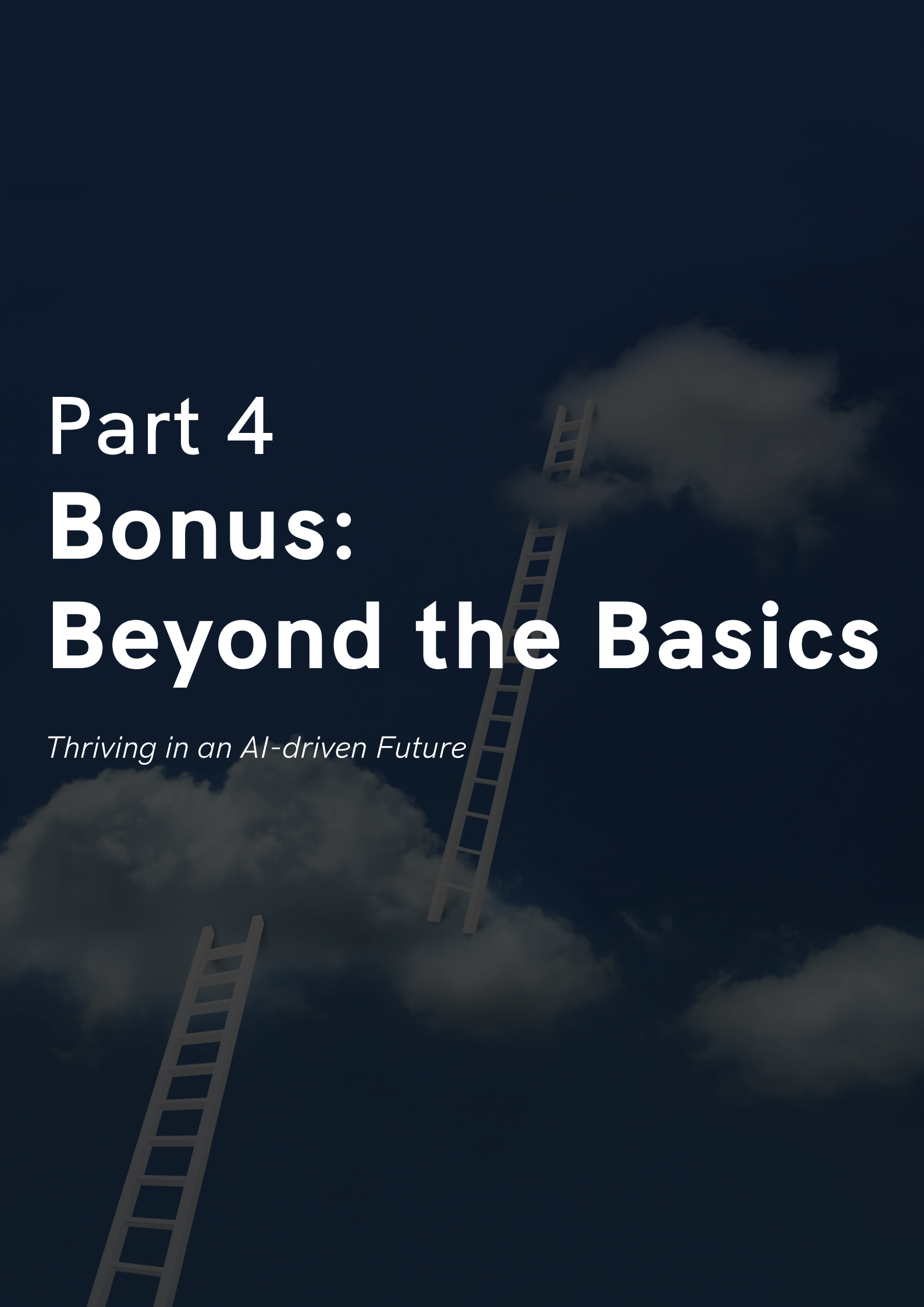
To make AI literacy tangible, we propose an ***AI Literacy Framework*** that outlines the essential criteria for becoming AI literate. These criteria are designed to be universal, applicable across various domains, from education to the workplace, ensuring that they cater to diverse audiences.

The framework is also scalable, meaning individuals can start with foundational concepts and gradually advance as AI technologies become more sophisticated. ***Meeting these criteria empowers individuals to make informed, ethical decisions in an AI-driven world.***

Much like traditional literacy allowed individuals to participate fully in society, AI literacy ensures that individuals are active participants in shaping the AI-driven future.

Minimum Criteria for AI Literacy

	Minimum Criteria	Examples
Foundational Knowledge of Basic AI Concepts	Can clearly describe basic AI concepts, recognise types of AI systems, and identify common AI applications.	Explaining machine learning as "AI that learns from data," or identifying AI-powered tools like voice assistants or chatbots.
Foundational Interaction with AI Tools	Can confidently use everyday AI tools and effectively prompt and refine basic AI-generated outputs.	Using tools like ChatGPT for simple tasks or crafting clear instructions for AI productivity tools like Microsoft Copilot.
Critical Evaluation of AI Outputs	Can assess AI-generated content for basic accuracy, relevance, and potential biases, and knows how to cross-reference results.	Questioning why YouTube suggests certain videos and considering whether the recommendations are relevant or biased, or recognising the limitations of AI filters in hiring.
Awareness of AI Risks and Ethical Considerations	Understands fundamental ethical challenges related to AI, such as bias, misinformation, and privacy risks.	Ensuring an AI-based hiring tool can explain why it rejects or selects candidates, with clear accountability for its decisions.
Comfort and Confidence in Engaging with AI	Feels comfortable recognising and interacting with AI in everyday contexts, embracing its presence, and continuously developing basic AI-related skills.	Regularly using AI productivity tools, comfortably engaging with personal AI assistants, and being open to experimenting with new AI applications.



Part 4
Bonus: Beyond the Basics

Thriving in an AI-driven Future

AI Literacy isn't the endpoint; it's the launchpad

Being AI Literate is a critical first step, yet the pace of AI development demands even more: **continuous learning and adaptability**. As AI rapidly reshapes the workplace, professionals who seek only foundational skills risk falling behind. To truly thrive, individuals must embrace ongoing evolution - learning and adapting continuously, shifting not only their skills but their mindsets.

In his influential piece, "***The AI-fication of Jobs***," **Huy Nguyen Trieu** underscores how sectors like finance, law, healthcare, and beyond are being transformed by AI. Routine tasks are increasingly automated, opening the door for professionals to engage more deeply in tasks requiring human ingenuity - **strategic thinking, creativity, and empathy**.

As roles evolve, the workers who thrive will not merely "use" AI tools, but collaborate and grow alongside them, continually adapting their skillsets. These professionals won't fear technological shifts (FOBO - Fear of Becoming Obsolete); they'll actively anticipate and leverage them.

Just as digital transformation demanded a shift in mindset from employees, the AI revolution requires professionals to cultivate continuous learning habits, resilience, and adaptability. By doing so, workers can not only secure their relevance but also unlock new possibilities in their careers, enhancing their personal growth and professional opportunities in ways previously unimaginable.

This vision underscores why organisations and individuals must prioritise building a truly AI-literate workforce - one that doesn't just understand AI but harnesses it to become Supercharged Professionals. Initiatives such as CFTE's "Supercharged" programme highlight precisely how this can happen: equipping individuals not only with core AI skills, but also the mindset and practical frameworks to amplify productivity, strategic impact, and innovation.

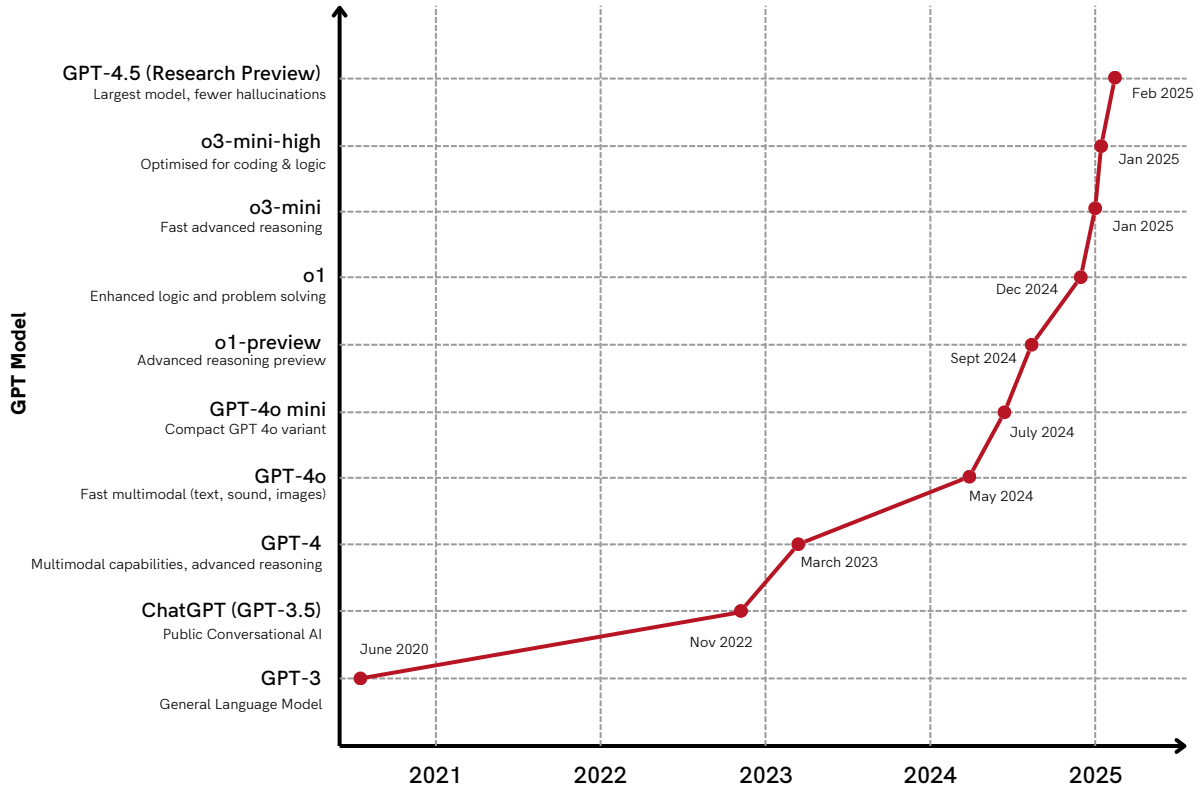
AI Literacy isn't the endpoint; it's the launchpad. Professionals who embrace this journey position themselves to succeed - no matter how technology evolves.

Continuous Learning and Adaptability

If we look at ***digital literacy*** from about 20 years ago, the landscape has certainly evolved with the rise of smartphones, laptops, and tablets. However, the core concept of internet usage—accessing information, communication, and digital services—has remained largely consistent. The tools have advanced, but the foundation has stayed the same.

In contrast, ***AI literacy is advancing at a much faster pace***. Just two years ago, AI tools were impressive but limited, perhaps capable of generating an image from a prompt in seconds. Today, AI can build entire virtual worlds or automate complex business processes with a single click, demonstrating its exponential growth. This rapid transformation requires users to continuously learn and stay updated with the latest AI advancements to remain effective and competitive.

Given AI's unprecedented pace of development, ***continuous learning*** becomes one of the most critical aspects of AI literacy. Individuals need to stay current with new tools, technologies, and ethical considerations to fully engage with AI's potential. Those who fail to adapt may find themselves outpaced by AI's progress.



Source: CFTE, 2024

Example: Initially, OpenAI's ChatGPT was known primarily for generating simple text-based conversations and basic content. However, recent advancements, such as GPT-4.5, have significantly enhanced AI's capabilities. **GPT-4.5** has scaled both pre-training and post-training methods, improving its pattern recognition, creative insight, and ability to accurately follow user intent - making interactions more natural and intuitive. Its increased reliability means fewer mistakes ("**hallucinations**") and better support for practical tasks, from programming and writing to solving complex real-world problems. And, with the release of **o1-preview**, the AI can now "**think**" before responding, tackling complex reasoning tasks and solving problems that require deep thought, like building entire digital systems or solving intricate logic puzzles. This rapid advancement highlights the importance of continuous learning to keep up with AI's fast evolution.

Additionally, Anthropic's latest Claude 3.7 Sonnet model, launched recently, showcases remarkable speed improvements and enhanced transparency in its decision-making processes. The model can explicitly demonstrate the "chain of thought" it follows to arrive at answers, significantly boosting trust and user comprehension. Furthermore, Claude 3.7 Sonnet powers an advanced tool called Claude Code, enabling it to autonomously perform software development tasks. With this new functionality, users can now create fully operational apps within seconds without writing any code.

These rapid advancements underline that AI literacy isn't merely about mastering today's technology but preparing continuously for tomorrow's breakthroughs. Staying updated and adaptable is essential; it ensures professionals not only remain relevant but confidently engage with evolving AI systems, avoiding the anxiety of becoming obsolete (FOBO).

This need for ongoing learning ensures that AI literacy remains **future-proof**, allowing users to keep up with cutting-edge developments like AI-generated media, automation systems, or virtual environments. It's not just about knowing today's AI but about staying ready for tomorrow's breakthroughs.

Supercharged Professional

In today's rapidly evolving landscape, AI literacy has transitioned from a desirable asset to an essential competency for professionals across industries. A recent LinkedIn study underscores this shift, revealing that 83% of European professionals are eager to integrate AI into their work, with 74% believing it will bolster their career progression. This enthusiasm aligns with projections that, by 2030, AI will drive a 51% change in the skills required for jobs globally, highlighting the urgency for widespread AI literacy. (Forbes, 2024)

However, possessing foundational AI knowledge is merely the starting point. To truly excel, professionals must evolve beyond basic literacy to become '**Supercharged Professionals.**' This concept, introduced by **Huy Nguyen Trie**u in his seminal work, "**The AI-fication of Jobs**," envisions individuals who harness AI to amplify their productivity and focus on uniquely human skills. Trieu's insights emphasize that **while AI automates routine tasks, it simultaneously elevates the importance of creativity, emotional intelligence, and strategic thinking.**

This paradigm mirrors the '**10x engineer**' notion popularized by tech visionary **Andrew Ng, where professionals leverage AI to achieve tenfold productivity gains**. Such individuals don't merely adapt to technological advancements; they proactively integrate AI tools to innovate and lead in their respective fields. For instance, a report by the World Economic Forum indicates that since 2023, **the number of AI literacy skills added by LinkedIn members has surged by 177%, reflecting a global trend towards upskilling.** (Weforum, 2024)

Embracing this evolution offers tangible benefits. According to a study by The Times, companies adopting AI tools have observed significant productivity boosts, with employees utilizing AI to enhance their work quality and efficiency. **Moreover, professionals proficient in AI often command higher salaries and are better positioned for leadership roles in the digital economy.** (The times, 2024)

In conclusion, while AI literacy is the new baseline, aspiring to become a Supercharged Professional entails a deeper integration of AI into one's skill set. By doing so, individuals can unlock unprecedented opportunities, drive innovation, and maintain a competitive edge in an AI-augmented world.

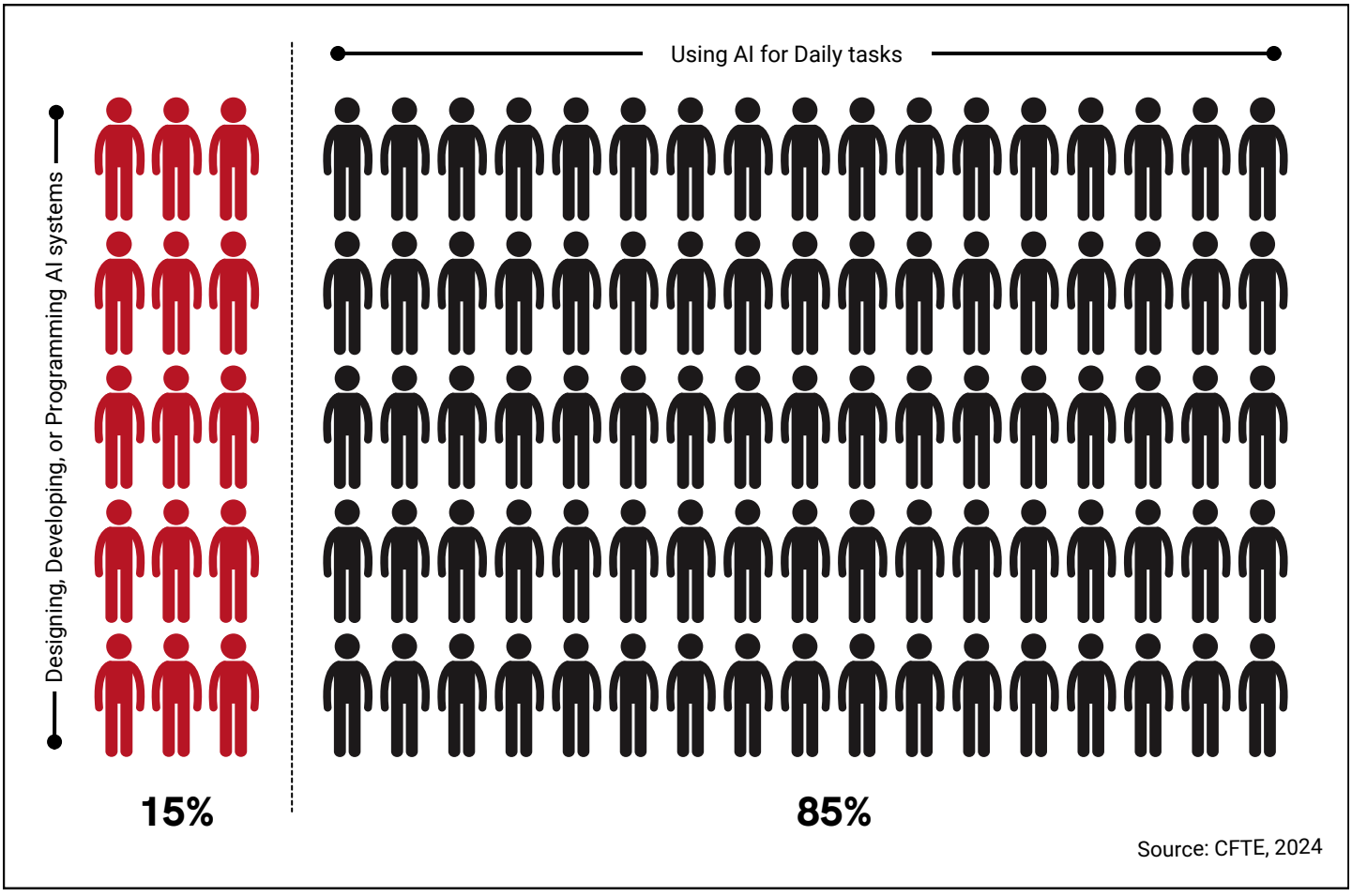
Part 5
AI Literate Workforce

Identify AI literacy within different functions and prepare AI-ready workforce.

Empowering the Workforce for an AI-Driven Future

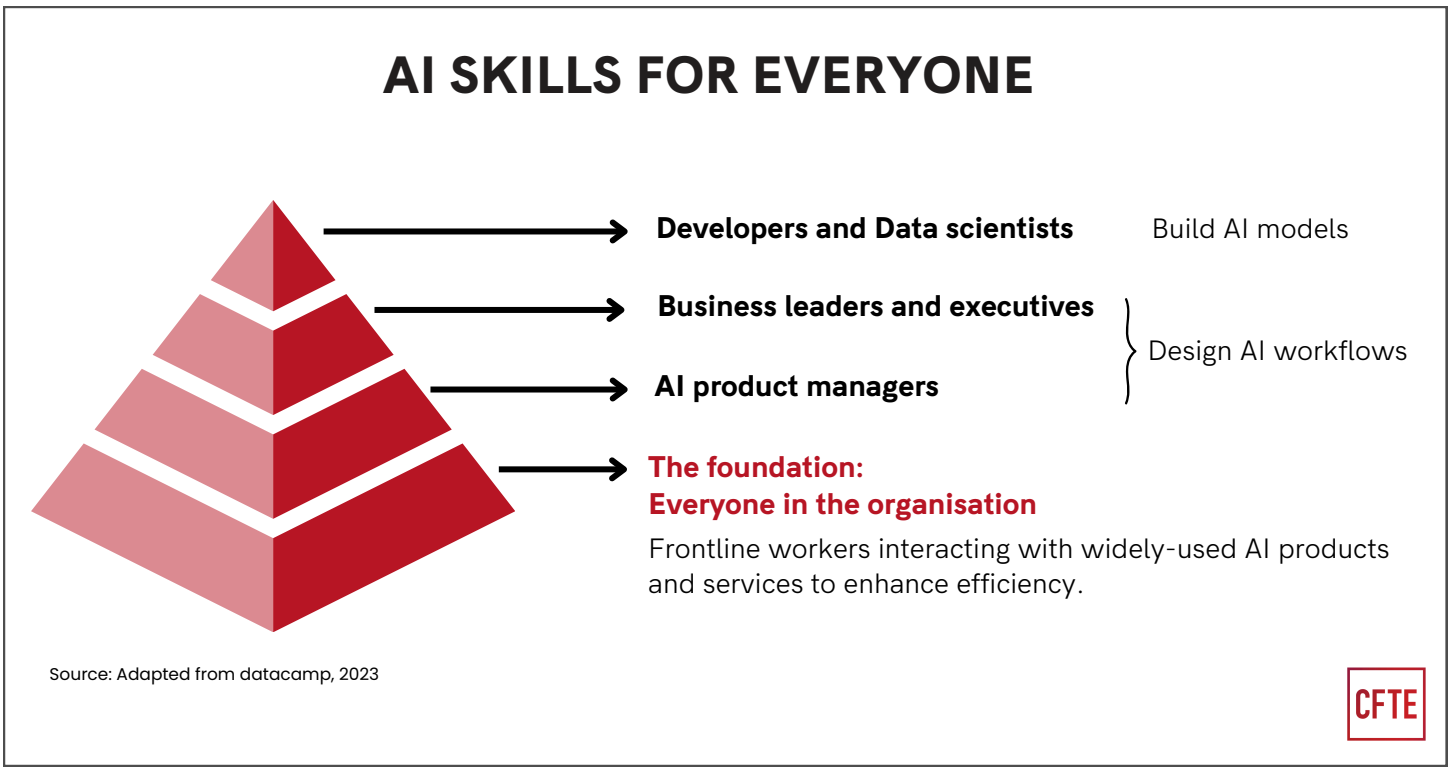
In the rapidly evolving industry landscape, AI literacy has emerged as a critical competency. As AI continues to revolutionise various business functions, it's important to identify AI literacy within different functions. Organisations are facing a critical challenge: preparing a workforce that is predominantly composed of AI users, not AI builders.

While only about 15% of the workforce will be directly involved in designing, developing, or programming AI systems, 85% will rely on AI to perform their daily tasks. This creates a pressing need for widespread AI literacy—not just for specialists but for all employees who will interact with AI systems to make decisions, solve problems, and enhance productivity.



Why Focus on AI Users?

While AI developers will be crucial to driving innovation, the majority of the workforce will engage with AI through user-facing applications. These employees won't need to know how to code AI systems, but they will need the skills to effectively operate AI tools, understand AI-driven insights, and critically assess AI outputs.



For example:

- In retail, customer service representatives will rely on AI chatbots to assist with routine customer queries, requiring them to monitor and guide the bot's interactions.
- In healthcare, doctors will use AI diagnostic tools that analyse patient data, but they must understand the AI's limitations and potential biases to make informed clinical decisions.

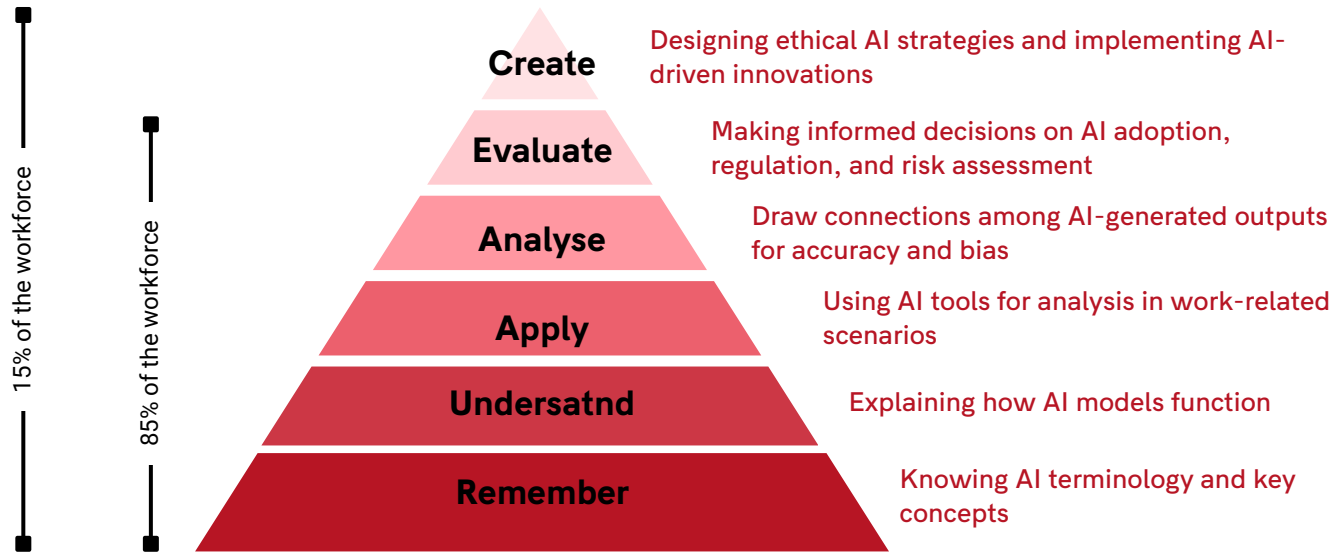
As AI continues to integrate into every aspect of business, upskilling the workforce to effectively use AI tools will be essential to ensuring that organisations stay competitive.

According to LinkedIn's 2024 Future of Work Report, AI and machine learning skills are among the top 5 most in-demand skills, but less than 30% of the global workforce is confident in their AI abilities . This indicates an urgent need for upskilling. (LinkedIn, 2024)

AI Literacy in Learning & Development

As AI becomes integral to business operations, organisations must ensure their workforce is equipped with structured AI literacy training. However, AI literacy is not a one-time skill but a progressive learning journey, requiring individuals to build foundational knowledge before advancing to critical thinking and ethical considerations.

A well-established model for structuring AI literacy education is **Bloom's Taxonomy**, which categorises learning into six hierarchical levels, let's take a look at the taxonomy:



While Bloom's Taxonomy is applicable to everyone, the top level – "**Create**" – should be reserved for the **15% of the workforce involved in designing, developing, or programming AI systems**. These include AI developers, data scientists, and engineers who actively build AI models and workflows.

The remaining **85% of employees** engage with AI in different ways:

- Business leaders, executives, and AI product managers primarily operate at the **Evaluate and Analyse levels**, making critical decisions about AI adoption and risk assessment.
- Frontline workers and general employees **Apply and Understand AI**, using AI tools in their daily tasks to enhance efficiency.

This structured approach ensures that AI literacy is accessible to all employees, equipping them with the right level of knowledge to engage with AI without requiring deep technical expertise.

Implementing AI literacy in an organisation doesn't just mean knowing how to use AI tools—it's about understanding AI deeply, critically engaging with its outputs, and adapting to its rapid evolution.

Here are five practical ways to embed AI literacy in your organisation, aligned with the key components of AI literacy:

1 Establish a strong understanding of AI Fundamentals

To create a foundation of AI literacy, it's essential that all employees, regardless of their role, grasp ***basic AI concepts*** like algorithms, machine learning, and how AI systems work. This knowledge helps demystify AI and prepares employees to engage with more complex AI tools and applications.

How to implement:

- Organise **introductory AI online programmes, workshops** that break down these concepts into simple and relatable terms.
- Use **industry specific examples** to demonstrate how AI is already influencing everyday tasks and taking decisions in your field.

Similar to how employees learned basic internet navigation in the 1990s, introduce AI by explaining how AI systems power recommendation engines (Like Netflix) or virtual assistants (Like Siri).

2 Promote Practical Proficiency with AI Tools

AI literacy includes ***hands-on proficiency*** with AI technologies. Employees should be trained to use AI-powered tools that can enhance their productivity and decision-making. Familiarity with AI in practical settings builds confidence and ensures they can fully leverage its capabilities.

How to implement:

- Offer **task-specific AI training** on tools relevant to each department's needs—such as AI-driven data analysis software, scheduling tools, or customer service bots.
- Integrate AI use into **everyday workflows** to ensure frequent practice and skill development.

Just as professionals once learned to optimise workflows by using email and digital calendars, they should now be trained to use AI tools like AI-powered scheduling apps or smart assistants or custom GPTs for time management.

3 Encourage Critical Evaluation of AI Outputs

A crucial part of AI literacy is developing the ability to ***critically assess AI-generated results***. Employees need to question the accuracy, fairness, and potential biases in AI outputs. Without this, they risk over-relying on AI decisions without considering the context or limitations.

How to implement:

- Host **critical thinking sessions** where teams analyse AI-driven recommendations and discuss potential biases or inaccuracies.
- Encourage a culture where employees **challenge AI outputs** rather than taking them at face value, fostering a more thoughtful engagement with AI.

Similar to learning to verify the credibility of websites during the internet's rise, employees should be trained to question why an AI system recommends certain products or decisions and whether there may be underlying biases.

4 Instil Responsible and Ethical Use of AI

Understanding the ***ethical implications*** of AI is essential. AI literacy includes recognising the potential societal, privacy, and fairness issues that arise with AI use. Employees should be aware of how their use of AI affects data privacy and broader ethical concerns.

How to implement:

- Provide **ethical AI training** focused on real-world issues like algorithmic bias, data privacy, and compliance with regulations such as **GDPR or the EU AI Act**.
- Create **clear guidelines** on how to use AI responsibly, ensuring accountability and transparency in AI-driven decisions.

Much like awareness campaigns on data privacy during the early internet era, employees should be educated on the risks and ethical responsibilities when using AI in processes such as hiring, customer profiling, or decision-making.

5 Foster a Culture of Continuous Learning and Adaptability

With the rapid advancement of AI, staying up-to-date with AI innovations is vital. AI literacy is not static—employees must continuously learn about new AI tools, capabilities, and ethical considerations to stay effective in their roles.

How to implement:

- Develop a **continuous AI education programme** with regular workshops, updates, and opportunities for employees to explore new AI technologies.
- Encourage **experimentation** with emerging AI tools to foster a culture of curiosity and adaptability.

As AI capabilities evolve from simple text generation to more advanced applications, like OpenAI's O1 preview, employees should be exposed to cutting-edge tools that transform workflows and business models, similar to how they once adapted to smartphones and the cloud.

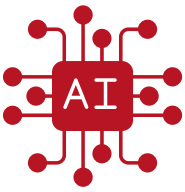
Challenges

Despite the structured approach, several obstacles can impede the journey toward a truly AI-literate workforce. These challenges demand careful navigation, as they significantly impact the effectiveness of AI training efforts. ***Incorporating these challenges shows not only the strategic approach to achieving AI literacy but also the reality of the obstacles that must be overcome to realise this vision***.

1. Overcoming Skill Gaps

Employees without a technical background often feel overwhelmed by AI's complexity. They may struggle with technical jargon, reducing engagement and leading to resistance.

Example: Tools like Google Assistant and Grammarly introduce non-technical staff to AI concepts in ways they can easily relate to, providing a low-pressure entry point into AI literacy.



2. Resistance to AI Adoption

Fear of job displacement is a recurring issue. When workers perceive AI as a threat to their roles, they resist adopting it, viewing automation as a risk to job security rather than a tool for enhancing productivity.

Example: Walmart successfully reskilled retail employees for AI-driven inventory management systems, reducing turnover by 20% and improving morale through targeted reskilling.

3. Keeping Pace with Technological Change

AI technologies evolve at a rapid pace, leaving many training programs obsolete within months. Continuous learning is essential, but organisations often lack the resources to update programs frequently enough.

Example: Regular AI skill audits ensure employees' knowledge is aligned with the latest technological advancements, helping them stay relevant and competitive.

4. Choosing the Right Training Partner

Organisations face a dilemma when choosing training partners. **Internal training can be time-intensive, but outsourcing to universities often means the curriculum lags behind real-world AI advancements.** Tech companies, meanwhile, tend to focus on upskilling AI developers, not the majority of employees who will use AI. Consultants can identify gaps but are often prohibitively expensive.

Example: Central Bank of Egypt partnered with CFTE, creating scalable, practical AI learning tracks that balance cost, scalability, and the evolving nature of AI.

5. Training as a Budget-Driven Checklist

In many organisations, Learning and Development (L&D) departments treat training as a budgetary line item rather than an opportunity to foster genuine skills development. ***This "checklist" mentality often results in underwhelming trainings that fulfill budgetary requirements but fail to deeply engage employees or impart knowledge.***

Example: A CIPD 2023 study found that 40% of L&D programs focus on budget compliance over meaningful upskilling, creating a gap between training and workforce readiness.

Conclusion

AI literacy is vital for compliance and productivity; this whitepaper offers a framework for implementation.

Conclusion

AI literacy has become a defining competency of the modern workforce, extending beyond technical expertise to include critical thinking, ethical awareness, and the ability to adapt to AI-driven transformations. This whitepaper has established that AI literacy is no longer a luxury - it is an imperative for individuals and organisations navigating a world where AI is embedded into decision-making, automation, and everyday workflows.

AI Literacy is the ability to understand, evaluate, and confidently use AI technologies, recognising both their capabilities and limitations in personal, professional, and societal contexts. It involves not only practical interaction with AI tools but also critical thinking, informed decision-making, and ethical responsibilit

A key insight from this research is that AI literacy is not static; it requires ongoing upskilling. The Bonus Section of this whitepaper highlights the importance of moving beyond basic AI literacy to becoming "Supercharged Professionals"—individuals who integrate AI into their workflows strategically, using it to enhance productivity, creativity, and decision-making. As AI capabilities continue to advance at an unprecedented pace, professionals must cultivate resilience, adaptability, and a growth mindset to stay ahead of the curve.

Furthermore, organisations must recognise that AI literacy is not just about AI developers. While only 15% of the workforce will focus on building AI systems, the remaining 85% will use AI as a tool in their daily operations. This makes enterprise-wide AI literacy a strategic priority, ensuring that employees across all functions - not just technical teams - understand how to interact with AI tools effectively, evaluate their outputs critically, and uphold ethical standards in AI implementation.

Looking ahead, this paper serves as a starting point for AI literacy implementation, but not the final word. Future editions will explore assessment methodologies, certification frameworks, and best practices for sustaining AI literacy across industries. The journey toward AI literacy is ongoing, and success will require a collective effort from individuals, businesses, policymakers, and educators.

Ultimately, AI literacy is not just about understanding AI - it’s about shaping the future with it. By embracing AI literacy, professionals and organisations can future-proof their skills, drive innovation, and ensure AI is used responsibly and inclusively in shaping tomorrow’s digital economy.

About CFTE

Founded in 2017 in London, CFTE is a global platform for education in Fintech and the future of financial services.

More than 100K professionals from 100+countries have participated in CFTE programmes to accelerate their careers in Fintech and new finance. In addition to London, CFTE operates in **Singapore** (accredited by Institute of Banking and Finance), **the UAE** (Abu Dhabi Global Markets, Emirates Institute of Finance), **Egypt** (Fintech Egypt / EBI), Hong Kong (Cyberport), **Malaysia** (Asian Banking School), **Luxembourg** (Luxembourg Academy of Digital Finance Academy with LHOFT) and **Budapest** (Budapest Institute of Banking).

CFTE's objective is to equip professionals and students with the skills to thrive in the new world of finance. This includes online courses and specialisations, leadership training and hands-on extrapreneurship experiences in topics such as Fintech, Open Banking, Digital Payments or Artificial Intelligence.

"In a tech world, we bet on people" is CFTE's motto. Our global community is the core of CFTE. Thanks to an innovative and open mindset, CFTE alumni progress in their careers and help others do the same, with notable alumni leading transformation in their organisations.

CFTE believes that the new world of finance will be inclusive, diverse, and innovative and will positively impact society and people. This starts with people having the proper knowledge and mindset so that no one is left behind. Whether you want to learn, contribute or generally be part of the new world of financial services, we look forward to welcoming you.

Link to CFTE: https://courses.cfte.education/

About AIFA

Launched in 2018 , AIFA has trained thousands of professionals in financial services.

The AI in Finance Academy (AIFA), launched in 2018, is designed to help governments, central banks, and financial institutions upskill their workforce with critical AI knowledge and capabilities. AIFA offers a holistic curriculum covering key areas such as AI foundations, tools, applications, data, and emerging trends, all aimed at empowering professionals to implement AI effectively within their organisations.

Through strategic learning, industry insights, and tailored programs, ***AIFA ensures participants gain a competitive edge, foster innovation, and stay ahead in the rapidly evolving AI landscape***. The program also includes hands-on workshops, self-paced online courses, and practical case studies to ensure learners gain actionable, real-world AI expertise.

AIFA's offerings are customised for specific sectors: governments benefit from national transformation strategies and talent development, while central banks receive specialised training in AI regulation and supervision. Financial institutions are supported with executive AI strategies, foundational knowledge, and advanced certifications.

The academy follows a structured approach to AI readiness, helping organisations discover their current AI capabilities, learn through hands-on training, apply AI with the right tools and resources, and continuously enhance their skills with the latest AI trends and updates.

Link to AIFA: https://courses.cfte.education/ai-in-finance-academy/

Supercharged Professional

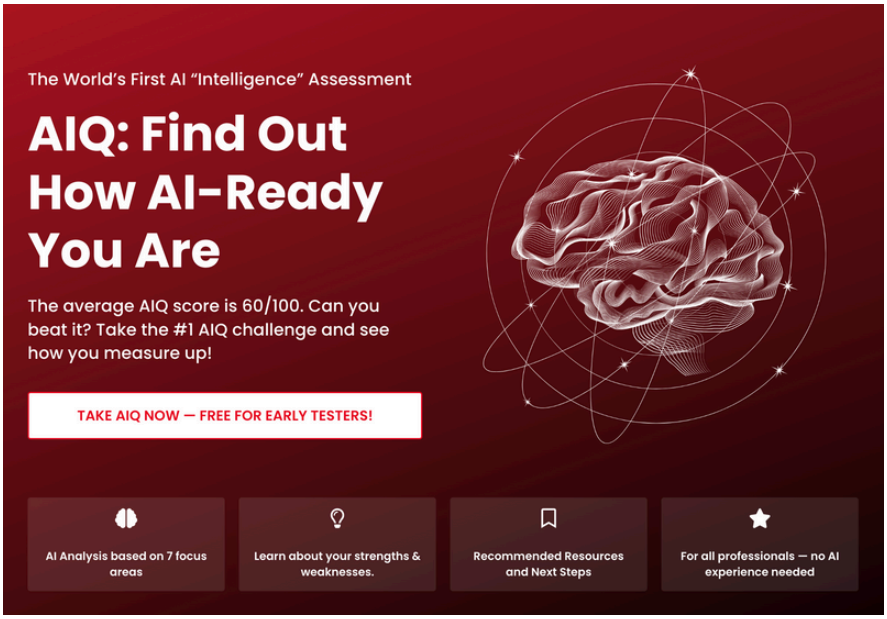
Supercharge me

As AI becomes embedded into daily workflows, the professionals who stand out will not just use AI, they will leverage it strategically to enhance their productivity, decision-making, and creative capabilities. A recent LinkedIn study revealed that 83% of European professionals are eager to integrate AI into their work, with 74% believing it will bolster career progression. Moreover, the World Economic Forum predicts that by 2030, 39% of core skills required across occupations will change, underscoring the need for continuous upskilling. To stay ahead, professionals must master AI-driven workflows, automation, and augmentation.

The Supercharged Professional concept, pioneered by CFTE, is based on the idea that professionals who deeply integrate AI into their skillset will become exponentially more efficient and impactful in their roles. Much like the '10x engineer' in technology - a professional who achieves tenfold efficiency gains through automation - Supercharged Professionals use AI to amplify their expertise, focusing on human-centric skills such as strategic thinking, problem-solving, and innovation. While AI adoption is accelerating, many professionals still lack the skills to fully harness its potential. According to the World Economic Forum's Future of Jobs Report 2025, 63% of employers identify skills gaps in the local labour market as a primary barrier to business transformation.

In industries ranging from finance and healthcare to marketing and law, professionals who integrate AI into their daily workflows will not only future-proof their careers but also drive innovation within their organisations. CFTE's Supercharged Professional programme ensures that individuals move beyond awareness and towards mastery, equipping them with the expertise to lead in an AI-powered world.

AIQ



Calculate my AIQ

As AI continues to shape industries, understanding one's proficiency in AI is crucial for career growth and organisational competitiveness. AIQ, developed by the Centre for Finance, Technology and Entrepreneurship (CFTE), is a structured AI skills assessment designed to objectively measure AI literacy and competencies across key domains.

Why AIQ?

- Benchmark Your AI Skills – AIQ provides an objective measure of AI knowledge, helping individuals understand their strengths and areas for improvement.
- Enhance Employability – Gain a recognised assessment that showcases AI proficiency to employers.
- Guide Upskilling Strategies – Organisations can leverage AIQ to identify skill gaps and develop targeted AI training programmes for their workforce.

Whether you're an individual looking to advance your career or a company seeking to build an AI-ready workforce, AIQ offers a data-driven approach to AI competency measurement.

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