

5 ways AI is changing the workplace

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Every now and again, a rising technology comes along and fundamentally changes the way we work. Artificial intelligence, or AI, has been at the forefront of recent discussion. One of the more exciting elements of AI is the potential to transform everyday productivity, most especially when it comes to creativity and collaboration. In this article, we dive deeper into the components of AI, the increasingly pervasive use of AI and five typical ways in which it is changing productivity for information workers.



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AI and the digitally transformed workplace

AI is closely tied with the evolving digital workplace. Routine tasks are increasingly automated, giving rise to new digital transformation realities in many organisations. But is AI a threat or an opportunity? That depends on which outlook you prefer. By 2025, machines will perform more current work tasks than humans (based on research from the World Economic Forum titled [The future of jobs 2018](#)). But it is also forecast that the rapid evolution of machines and algorithms in the workplace could create 133 million new roles in place of 75 million that will be displaced between now and 2022.

Aside from potential labour market shifts, AI could become a bottom-line business imperative. Companies are evaluating the potential of AI to accelerate their businesses through creating efficiencies or boosting the productivity of their workforce. According to study by Accenture, AI could boost average profitability rates by 38% and lead to an economic increase of \$14tn by 2035. These boosts would come from efficiencies like the accelerated development of new products, increased innovation and the generation of new revenue streams. But it's not just AI that contributes to this new business landscape - us humans play an important role too.

Humans vs machines?

There are many misconceptions about AI, like the Terminator-type world view where machines take over. But this is a myth. There will always be work that people do better. Humans possess ingenuity that machines just cannot replicate. We learn and grow through both cognitive learning or IQ but also emotional intelligence or EQ. AI is used more for identification, image or pattern recognition and therefore involve more of the cognitive aspects of learning. There are other areas of our human capacity, like personal development, creativity, as well as the capability to manage and motivate teams that will always require our ingenuity.

The ingredients of AI

AI is fueled by three main ingredients: data, networks, and algorithms.

First, data has become arguably the most important currency in modern history. And the scale of data is growing. It is estimated that 80% of the world's data has been generated in the last two years. For example, billions of user authentications take place monthly across hundreds of millions of devices, with signals that span personal and professional realms. With all this data comes opportunity for organisations to pull these data signals together to deliver unique experiences for information workers.

Second, networks are required to process this data and make the connections. High-speed mobile internet and cloud technology are set to spearhead this data processing and deliver AI powered experiences. Modern data networks span the globe, meaning the data processed and patterns recognised make AI machines infinitely smarter the more data is fed to them. These AI networks connect people, content, location and other data sources to service their customers better and optimise productivity and serve better insights.

And finally, algorithms allow companies to create unique AI experiences. Over time, algorithms have changed the world. Search indexing and pattern recognition, both algorithms, have influenced productivity breakthroughs as small as being able to find a document or as large as the latest innovation in genomics. But while this all may sound like science fiction, these experiences are already making their way into how we work every day.

Everyday AI

Many of us already use AI without knowing it. If you have ever leveraged a virtual assistant to find directions, browsed weather apps, read online movie suggestions, used a voice command, it is most likely powered by AI. I read a great quote recently that said

“ If it is written in python, it is probably machine learning, if it is written in PowerPoint, it is probably AI. ”

5 ways your workforce can leverage AI

Now let's break down AI into 5 common scenarios in which it has potential to change personal productivity for information workers:

1. The creative thinker

Many information workers have creative ideas but may not necessarily be the best at bringing those ideas to life or visualising them. Modern day AI tools allow us to input ideas and then use the image recognition capabilities of AI to propose a design which matches the content.

2. The information seeker

In dealing with the abundance of daily information that workers need to process, AI can recognise patterns of the people most frequently engaged with and the messages most read, in order to anticipate the ones you are most likely to read, and maybe even formulate a response you are most likely to give. And these benefits spill into our personal lives too. In a time when work and home life are becoming increasingly converged, being able to manage time and stay on top of our schedules is more important than ever. AI experiences built into calendaring abilities can help us prioritise content, prompt us when it is time to leave for our next personal or professional appointment.

3. The communicator

One of the more exciting aspects of how AI can transform tasks we do every day is communication. With a workforce that is increasingly global and distributed, things like language or time barriers can become a real inhibitor to effective communication. Modern day communication tools allow us to have conversations in real time, while doing live translation. In the landscape of collaboration, a lot of our time is spent in meetings, but with a reality that it may often be difficult to align meeting schedules. Modern meetings can be recorded in the cloud and AI allows us to view a transcription of these meetings, search for keywords and even proactively let participants know of actions required. In broadcast meetings, AI provides the ability to analyse sentiment and provide an instant pulse on how my message is being received.

4. The decision maker

Research is another area that can be time consuming, but modern day AI tools can surface insights from data based on patterns learned over time, enabling us to focus on making better decisions and go one level deeper on insights by having more time to focus on the 'why' and not the 'what'.

5. The person with a disability

One of the more important aspects of AI is the potential it holds for accessibility. Nearly one in five people suffer from a disability, many of which are invisible to the naked eye. AI can proactively suggest things like adding text to an image to make it more accessible, or allowing text to be read out loud, or even providing a person who someone who is not able to hear with an opportunity to read a transcript and be an active participant.

Humans and machines vs the problem

When it comes to our personal productivity, AI unlocks opportunity for us to augment our human capacity and focus on, well... just being human.

AI has the potential to amplify our creative capacity, to help us to find the information we need, when we need it, stay on top of our personal and professional lives, make us better communicators, unearth information and insights that otherwise would have missed and also make sure that we have a more inclusive workplace.

When it comes to productivity and AI, it is not as much a scenario of humans vs machines, but more of humans plus machines vs the problem.

ABOUT FARREN ROPER

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