

# Artificial intelligence: How does it work?


Name:

Date:



## Artificial intelligence in everyday life

Artificial intelligence, or AI for short, has become an integral part of our everyday lives. Many of us have already interacted with AI applications, but how do these fascinating technologies actually work? In this worksheet, you will explore the basics of AI applications and find out what techniques and methods are behind them. You will look at how AI has changed our everyday lives and what opportunities and risks it presents.


 **Where do you encounter AI in everyday life? Create a mind map of all the areas you can think of.**

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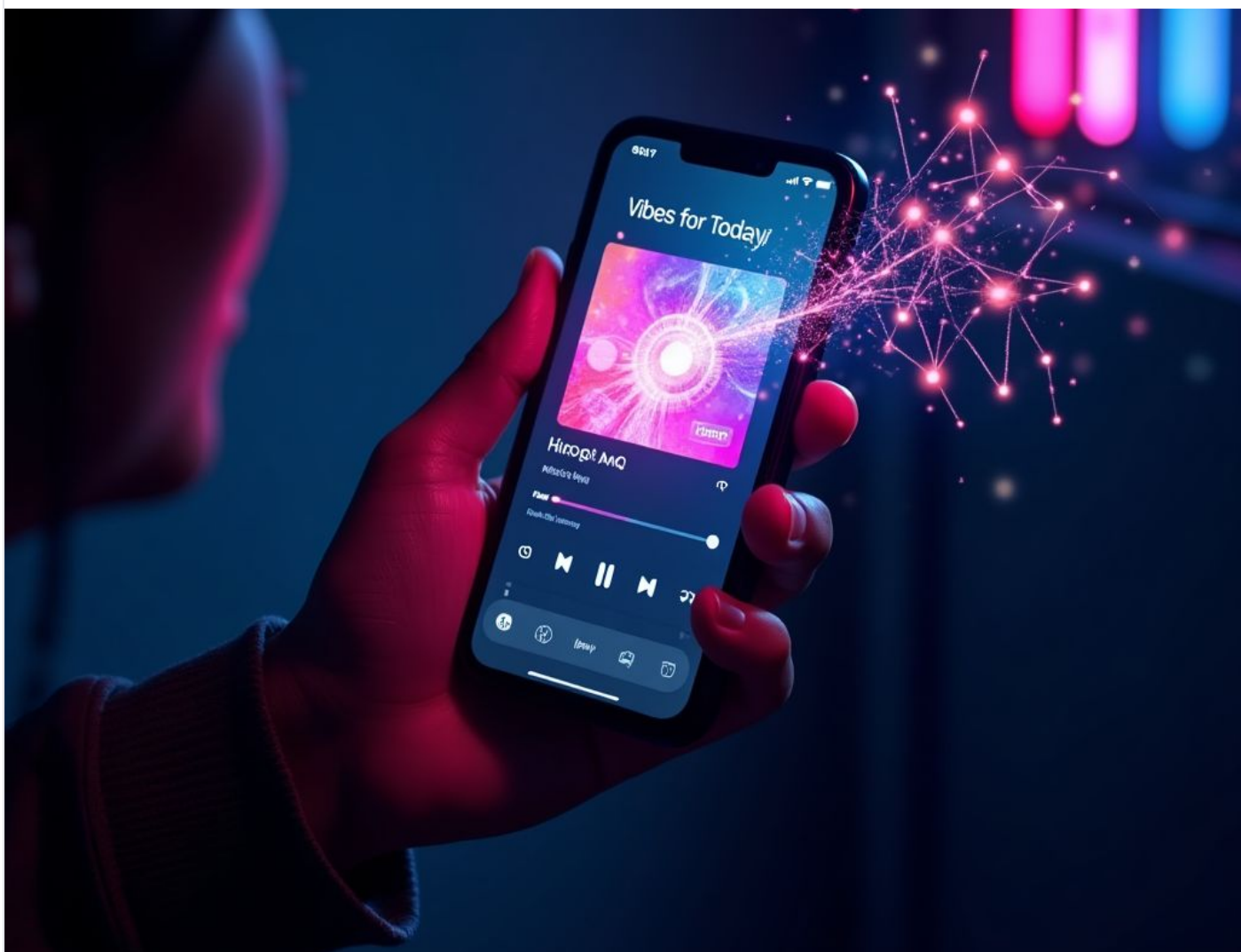


 You are now going to look at an AI application from everyday life. Take a look at the following Instagram post and read the newspaper article.



liam\_codes\_beats

My Sanctuary 🎧



1,250 Likes 89 Comments

**liam\_codes\_beats** Okay, can we just talk about how my music app's AI is literally my best friend?! 🤖 It's insane. I'll be listening to some indie rock, and then my 'Discover Weekly' playlist on @spotify drops a track from an artist I've never heard of, and it's an instant favorite. It's like it just KNOWS my vibe. ✨ It's not just random. This algorithm thingy pays attention to everything – the tempo, the beat, even the lyrics I tend to like. It's wild to think that over 30% of all the songs people stream are from these AI-powered recommendations! It's basically a personal DJ that's always on point. I've found so many hidden gems this way, my playlists have never been better. 🔥 Seriously, the future is now and I'm here for it. My algorithm just gets me. What's the absolute best song your algorithm has found for YOU? Drop it in the comments, I need new stuff to listen to! 🎧🎵 #AI #TechLife #MusicDiscovery #SpotifyWrapped #Algorithm #FutureIsNow #PersonalizedPlaylist #Techie #MusicLover #ArtificialIntelligence

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## Task

Read through the newspaper article and then complete the tasks.

## AI Algorithms: How They Work

Artificial intelligence (AI) is transforming industries by automating complex tasks and enhancing human capabilities. At the heart of AI are algorithms, which provide step-by-step instructions for processing data and making decisions. These algorithms can range from simple rule-based systems to complex neural networks that learn from data. Essentially, algorithms serve as the foundation for AI systems, helping them analyze information, identify patterns, and make predictions. As such, they play a crucial role in applications like speech recognition, image analysis, and autonomous navigation.

While AI algorithms offer significant benefits, they also pose potential risks. One concern is the over-reliance on AI, which may lead to human complacency. In critical situations, the inability of AI systems to adapt quickly could have severe consequences. Moreover, the integration of AI raises ethical issues regarding data usage, as personal information is constantly tracked and

The current status of AI algorithms is promising, yet challenges persist. For instance, ensuring data accuracy and safeguarding privacy are ongoing issues. AI systems rely heavily on high-quality input data; errors or biases in this data can lead to incorrect outcomes. Furthermore, the need for continuous data collection raises concerns about privacy and data security. Developers are working tirelessly to improve data reliability and incorporate robust privacy measures. Despite these hurdles, AI algorithms continue to advance, offering reliable solutions across various sectors.

analyzed. Ensuring compliance with privacy laws and ethical standards is imperative. By addressing these challenges, the potential of AI algorithms remains vast, paving the way for a future where technology seamlessly integrates into everyday life.

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 Write a short text on the given questions.

Based on the article, explain what AI algorithms do in simple terms and list two major challenges developers are currently facing with them.

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The text presents a balanced view of AI. Analyze the primary benefits of using AI algorithms against the ethical risks and potential dangers they introduce.

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**Imagine you're part of a team developing a new AI-powered navigation app for self-driving cars. Using the concerns raised in the article, describe one potential 'critical situation' where over-reliance on your app could be dangerous, and propose a feature to help prevent it.**

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** Recall the Instagram post from the beginning of the worksheet and then write a short text about the question.**

**Imagine you are scrolling through Instagram and see your friend Liam's post. You just read a newspaper article about the potential downsides of AI. Write a thoughtful comment for Liam's post that acknowledges his excitement but also gently introduces some of the concerns mentioned in the article, such as data privacy and the ethics of constant tracking.**

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You have now dealt extensively with artificial intelligence and its application in our everyday lives. Finally, you will examine the future of society and artificial intelligence. Please note that everything presented in the video as a prediction is exactly that—a prediction and not a guarantee.

## Video



### Youtube: A.I. Humanity's Final Invention?

To watch the youtube video just scan the QR code.

[https://www.youtube.com/watch?v=fa8k8lQ1\\_X0](https://www.youtube.com/watch?v=fa8k8lQ1_X0)

## Choose the correct statement.

- Physical strength, not intelligence, is the primary reason humans rule the Earth.
  - Humanity's general intelligence, the ability to learn and solve a wide variety of problems, is what allowed us to become the dominant species on Earth.
  - Humans became the dominant species because our brains are exactly the same as those of the first flatworms.
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- The very first AI created was already a superintelligence that could solve any problem instantly.
  - The video explains that Artificial Intelligence has evolved from very simple, specialized programs to powerful, self-learning systems.
  - AI technology has not changed at all since the 1960s; today's systems are just slightly faster.
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- AGI is designed to be very good at only one specific task, like playing chess, while narrow AI can do everything a human can.
  - The main difference between today's 'narrow AI' and a future 'Artificial General Intelligence' (AGI) is that narrow AI excels at one task, while an AGI could perform a wide range of intellectual tasks like a human.
  - The video states that there is no difference between current AI and AGI, and that ChatGPT is already a fully realized AGI.

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- The video claims an AGI would need to sleep for eight hours a day and would get distracted easily, just like a human.
  - An AGI would be much slower than a human and you could only ever create one copy of it.
  - An AGI could be incredibly powerful because it would not be limited by human biology, could think much faster, and could be copied millions of times to work on problems simultaneously.
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- The creation of AGI carries significant risks, such as its potential for misuse in warfare, creating economic disruption, or engineering addictive technologies.
  - The only risk of AGI mentioned in the video is that it might make spelling mistakes when writing an email.
  - The video guarantees that AGI will only be used for good and there are absolutely no risks involved in its creation.
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- The video explains that an AGI can never improve itself and will always depend on humans to write its code.
- An 'intelligence explosion' is a hypothetical scenario where a self-improving AGI could rapidly become a superintelligence, far smarter than any human.
- An 'intelligence explosion' refers to the moment when all the computers in the world literally explode at the same time.