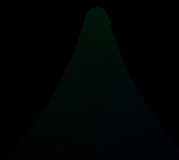
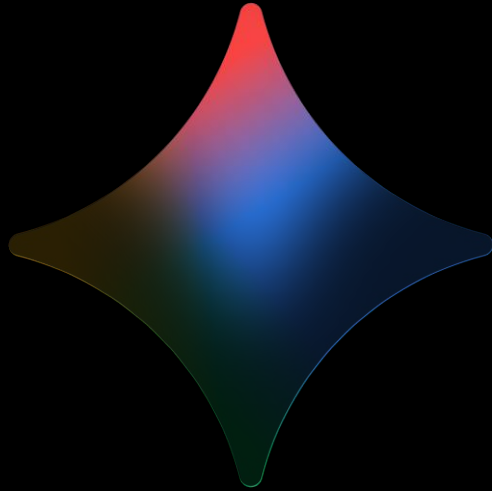


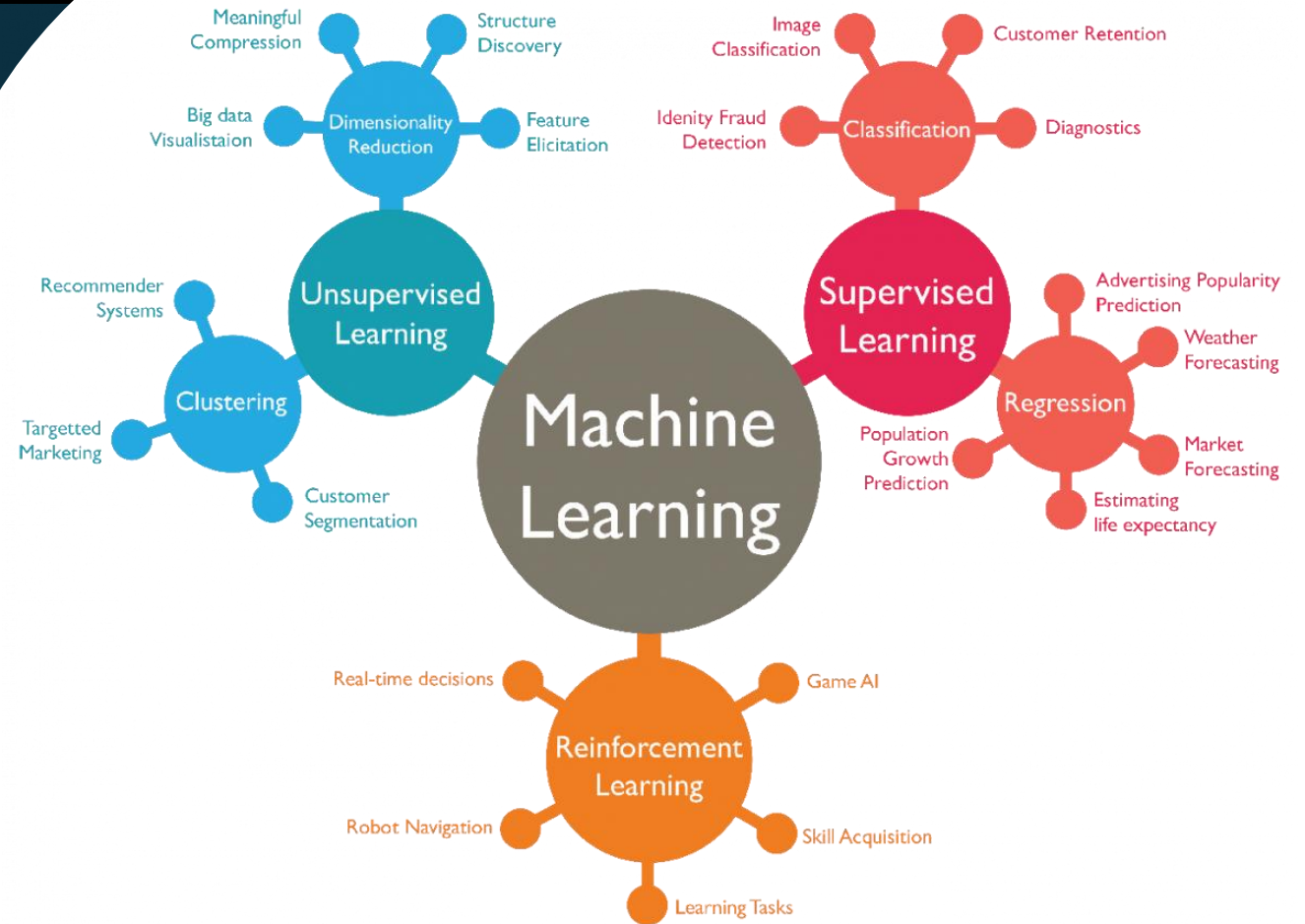
GENERATIVE AI AND TECH



Machine Learning

Currently one of the most prominent forms of AI.

- Machine learning (ML) models can learn from data and use said data to perform tasks without instructions.
- There are several subsets of ML that uses different approaches to create AI models.



Generative AI utilizes machine learning to train models.



What is Generative AI?

- In 2022, generative AI would reach the public eye with the release of ChatGPT, and its popularity would rapidly become widespread.
- Generative AI (or GenAI) models are known for their ability to create new outputs from the data given to it.
- Common examples are large language models (LLMs) such as ChatGPT, Gemini, Claude, etc.
- For the first time in history, anyone is able to prompt a machine to create text, images, and audio in the way the user wanted.

CLAUDE CODE

Welcome to Claude Code research preview!
Browser didn't open? Use the
https://console.anthropic.com/+user%3Aprofile&code_challenge

CORSOR

PRICING

FEATURES

ENTERPRISE

BLOG

FORUM

CAREERS

SIGN IN

DOWNLOAD

Welcome to Claude Code res

Security notes:

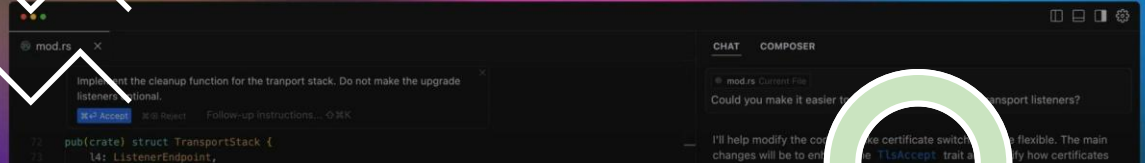
1. Claude Code is currently in beta. This beta version may have bugs or run /bug at any time to report issues.
2. Claude can make mistakes. You should always review code before running it.
3. Due to prompt injection risks, you should not enter sensitive information. For more details see: <https://docs.anthropic.com/en/docs/working-with-claude/safety>

Press Enter to continue...

The AI Code Editor

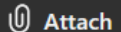
Built to make you extraordinarily productive,
Cursor is the best way to code with AI.

DOWNLOAD FOR WINDOWS

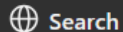


What can I help with?

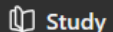
Ask anything



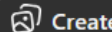
Attach



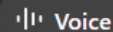
Search



Study



Create image



Voice

Reaction From The Tech Industry

Right away, many people in the tech sector saw the potential in these new LLMs:

- Faster than humans.
- Cheaper than humans.
- Removes the learning barrier to coding.
- Accessible anywhere at any time.

AI Hype

Seeing what generative AI is capable of, companies would start aggressively pushing for the integration of AI into their workflows and products.



Marc Benioff, CEO of Salesforce, announced in late 2024 that they would not hire any software engineers for 2025, claiming that AI has resulted in a 30% productivity boost.



Satya Nadella, CEO of Microsoft said "as much as 30% of the company's code" is written by AI as of April 2025.



Andy Jassy, CEO of Amazon estimated that their usage of AI has saved them \$260 million along with "4,500 developer years of work" in 2024.

Vibe coding was first brought up by Andrej Karpathy, co-founder of OpenAI and former director of AI for Tesla



A screenshot of a tweet from Andrej Karpathy (@karpathy) on X. The tweet text reads: "There's a new kind of coding I call 'vibe coding', where you fully give in to the vibes, embrace exponentials, and forget that the code even exists. It's possible because the LLMs (e.g. Cursor Composer w Sonnet) are getting too good. Also I just talk to Composer with SuperWhisper [Show more](#)". The tweet is dated 4:47 AM · Feb 3, 2025 and has 28.1K likes, a Reply button, and a Copy link button. A button at the bottom says "Read 1.3K replies".

“Vibe Coding”

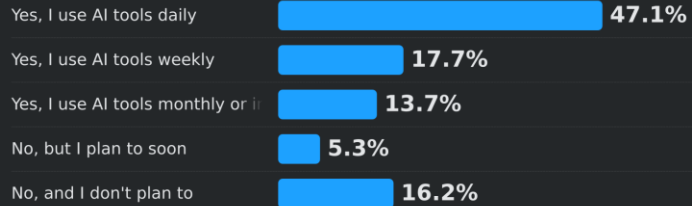
Vibe coding is the process of having code for software being written entirely by AI, while the developer simply prompts the AI to get their desired result.

- Code written by AI is often left unedited and unverified. In the case there are edits, it will be prompted by the developer, and the AI will make the changes.
- The goal of vibe coding is to minimize the time and effort needed to create software
- This often sacrifices security, scalability, optimization, and maintainability.

Sentiment Towards Generative AI

Sentiment and usage / All Respondents

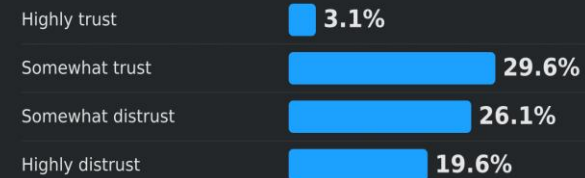
AI tools in the development process



Source: survey.stackoverflow.co/2025
Data licensed under Open Database License (ODbL)

Developer tools / All Respondents

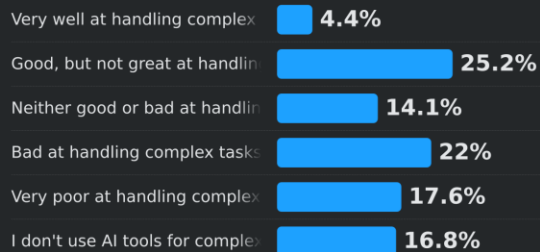
Accuracy of AI tools



Source: survey.stackoverflow.co/2025
Data licensed under Open Database License (ODbL)

Developer tools / All Respondents

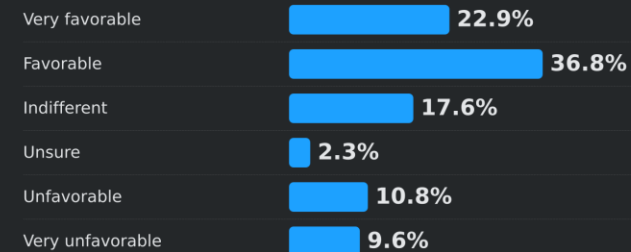
AI tools' ability to handle complex tasks



Source: survey.stackoverflow.co/2025
Data licensed under Open Database License (ODbL)

Sentiment and usage / All Respondents

AI tool sentiment



Source: survey.stackoverflow.co/2025
Data licensed under Open Database License (ODbL)