

How I Work with LLMs

Tanvi Tiwari

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Intern

Amazon

Digital Ordering

Summer 2016



Team Change

Amazon

Fulfillment Tech

2020 - 2023

Sr. Software Engineer

Meta

Multimodal AI, Wearables

2024 - present



Software Engineer

Amazon

Digital Ordering

2017 - 2020

Team Change

Amazon

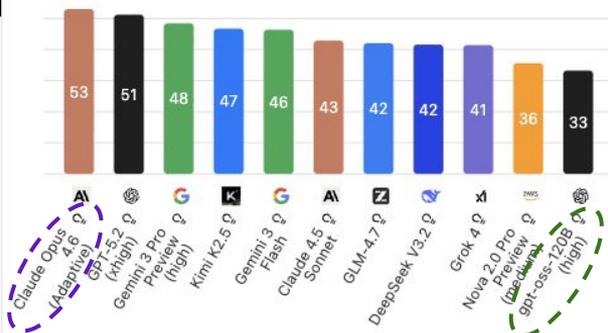
Alexa Shopping

2024

Important LLM Characteristics

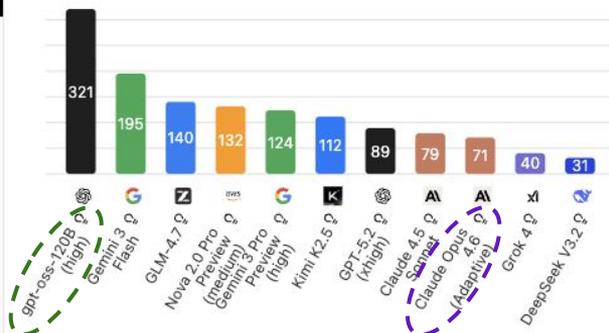
INTELLIGENCE

Artificial Analysis Intelligence Index; Higher is better



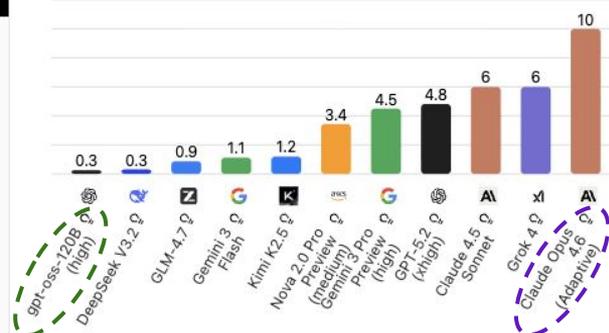
SPEED

Output Tokens per Second; Higher is better



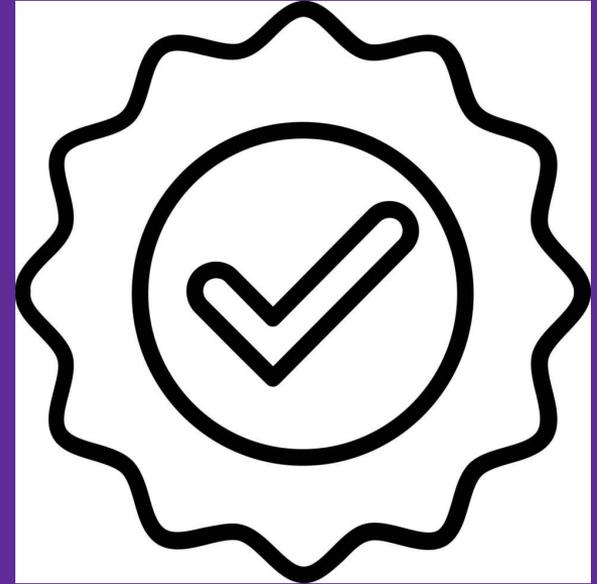
PRICE

USD per 1M Tokens; Lower is better



<https://artificialanalysis.ai/>

Response Quality



Guidelines and graders

- Write grading guidelines
- Hire graders
- Train them on grading guidelines

Consider:

- Quality assurance
- Multi-reviews

LLM-as-a-Judge

MT-Bench Paper

Question: If the FED buys bonds in the secondary market (A) the money supply will increase. (B) the money supply will decrease. (C) the money supply will not be affected. (D) the discount rate would be affected. Output the answer only.

Assistant A:

The Federal Reserve buys bonds in the secondary market to increase the money supply.

Assistant B:

(A) the money supply will increase.

Follow-up Question: How does it affect my daily life? Give 3 examples.

Assistant A:

The Federal Reserve buys bonds in the secondary market to increase the money supply. This affects your daily life by:

1. Increasing the money supply.
2. Increasing the money supply and lowering the discount rate.
3. Increasing the money supply and lowering the discount rate and increasing the money supply.

Assistant B:

When the Federal Reserve buys bonds in the secondary market, it can have several effects on the economy that can impact your daily life. Here are three examples:

1. Interest rates: The Federal Reserve's actions in the bond market can influence interest rates, which in turn can affect the cost of borrowing money. For example, if the Federal Reserve buys bonds and drives up demand for them, interest rates on things like mortgages, car loans, and credit cards may go up, making it more expensive to borrow money.
2. Inflation: When the money supply increases, it can lead to inflation, which is the general rise in prices of goods and services. This can impact your daily life by making it more expensive to buy things like groceries, gas, and other necessities.
3. Employment: The Federal Reserve's actions in the bond market can also have an impact on employment. For example, if the Federal Reserve's actions lead to economic growth and increased demand for goods and services, it can create more job opportunities and boost employment.

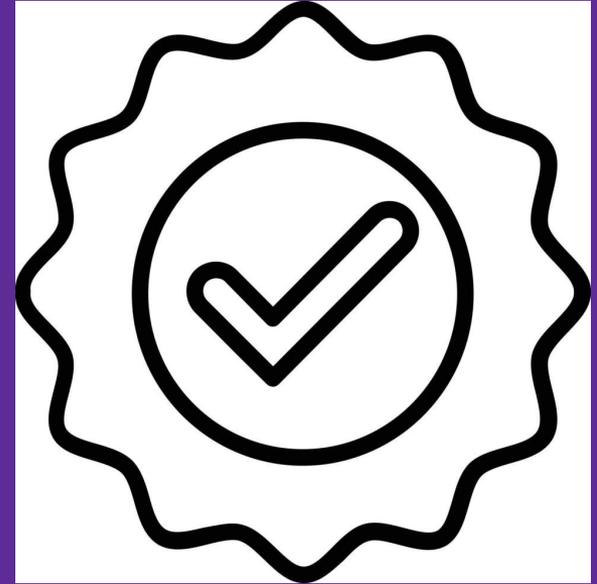
GPT-4 Judgment:

Assistant A provided an incorrect response to the user's question about how the Federal Reserve buying bonds in the secondary market affects daily life. **The answer given is repetitive and lacks clear examples of how the action impacts daily life.**

On the other hand, **Assistant B** provided a relevant and accurate response to the user's question about the Federal Reserve buying bonds. The answer includes three clear examples of how the action impacts daily life, such as interest rates, inflation, and employment.

Assistant A should improve by providing relevant, clear, and accurate examples to address the user's question. **Assistant B's** response is more helpful, relevant, and detailed.

Improving Quality





Pre-Training

Build a foundational model



Fine-tuning

Train on top of a pretrained model



System Improvements

Work with the model you have

Prompt it better



Pre-Training
Build a foundational model

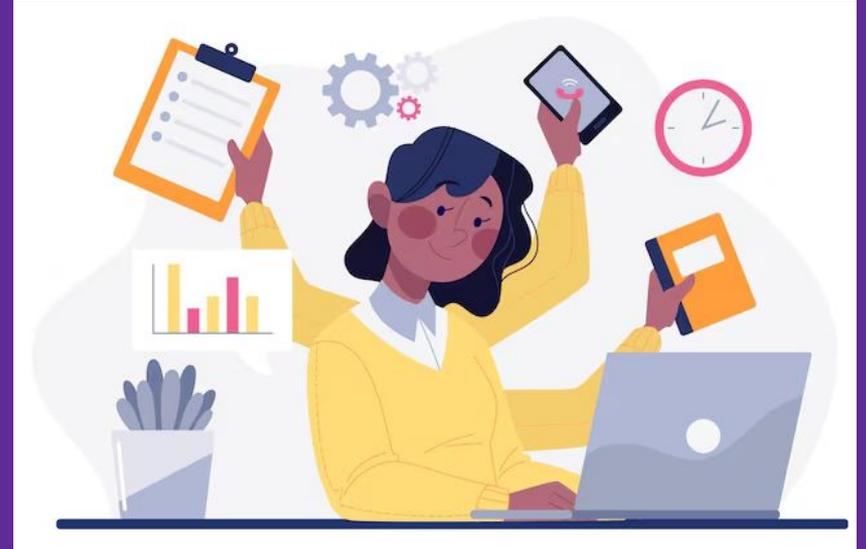


Fine-tuning
Train on top of a pretrained model

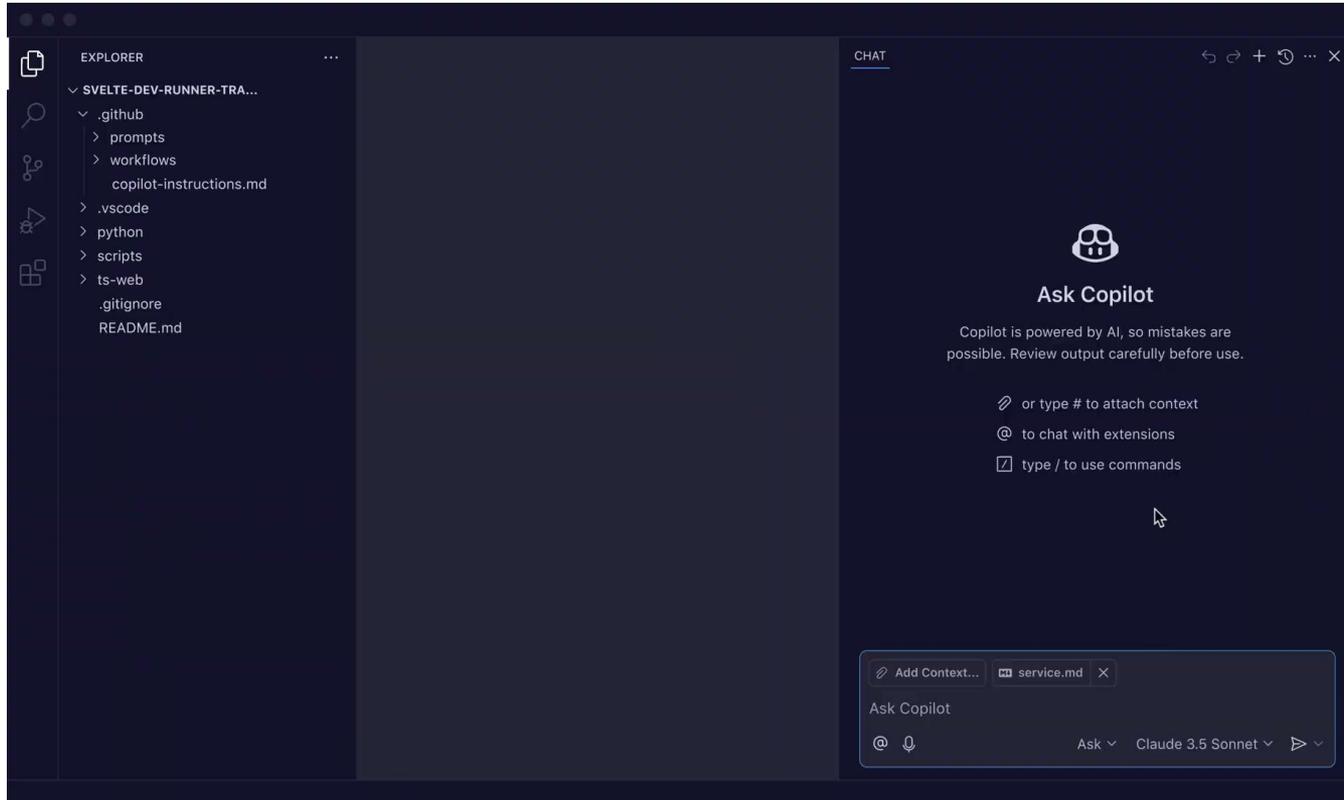


System Improvements
Work with the model you have
Prompt it better

Using AI at Work



GitHub Copilot



Why developers love Claude Code

- **Meets you where you work:** Use Claude Code in your terminal, your IDE, or a standalone desktop app. It integrates with the tools you already use.
- **Takes action:** Claude Code can directly edit files, run commands, and create commits. Need more? **MCP** lets Claude read your design docs in Google Drive, update your tickets in Jira, or use *your* custom developer tooling.
- **Unix philosophy:** Claude Code is composable and scriptable. `tail -f app.log | claude -p "Slack me if you see any anomalies appear in this log stream"` works. Your CI can run `claude -p "If there are new text strings, translate them into French and raise a PR for @lang-fr-team to review"`.
- **Enterprise-ready:** Use the Claude API, or host on AWS or GCP. Enterprise-grade **security**, **privacy**, and **compliance** is built-in.

Claude Code

Advice



Learn the Fundamentals

- Don't have AI do your homework
 - Unless your instructor says to
- Use AI coding tools in your personal projects

Be Curious

- Try out new technologies
- Try putting together small personal projects
- Dive into how things work
- Use AI (when company/school allows it) to learn quicker

Important Skills

- Debugging
- System design and architecture
- Working with AI as a teammate
- Product and user thinking
- Learning fast (using AI)

Less Important

- Boilerplate code
- Tedious code i.e.
 - Handwriting regexes

Figure Out Your Top Skills

- Learned after 1-2 years in industry
- My strengths:
 - Debugging & critical thinking
 - Tech expertise
- Not as good / don't enjoy:
 - Vision-setting & ideating
 - Convincing others

Thank you!

Questions?