Using LLMs During your Learning Journey and Beyond

Varada, Aldo, Sky

Using LLMs (Sky)

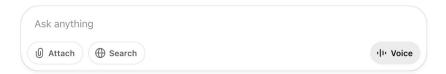
Free + UBC approved GenAl tools

OpenAI ChatGPT (free version, DO NOT login)

O GPT5

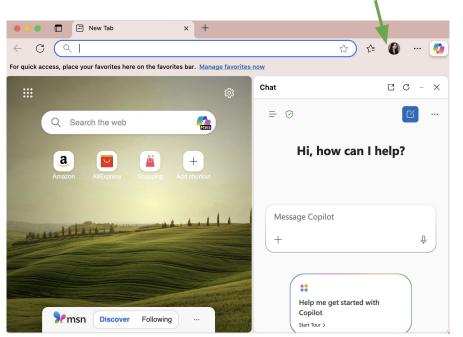
(Sign up for free ?

ChatGPT

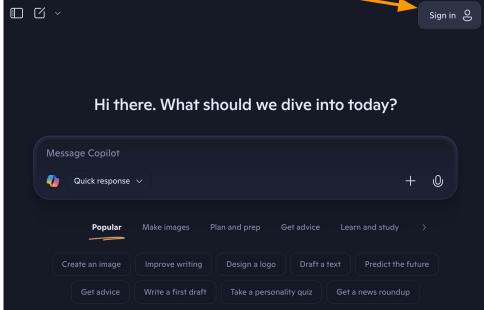


Free + UBC approved GenAl tools

 Microsoft Copilot Edge web browser sidebar(Log in with @student.ubc.ca)



 Microsoft Copilot organization (use as guest)



UBC restricted GenAl tool (hard NO)



As a result, the following applies at UBC:

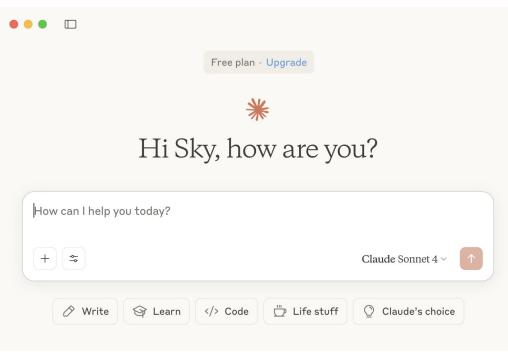
- 1. The DeepSeek applications, including mobile, desktop and web or browser access (the "DeepSeek Applications") present a high degree of privacy and security risk. The DeepSeek model (i.e., the underlying, open-source architecture) downloaded from reputable sources is not currently known to be high risk.
- 2. UBC restricts the installation or use of the DeepSeek Applications on any UBC-owned or personal devices that are used for university business or that access a UBC system through user login. Examples include the UBC wireless network, UBC Library systems, Canvas, Workday, VPN, or any other UBC system requiring a username and password. For any other personal devices, UBC strongly recommends against using or installing the DeepSeek Applications.

All the GenAl tools & models I will demo after this slide are NOT recommended by UBC

(but you are <u>NOT</u> restricted from using it)

NOT UBC approved GenAl tools

- Anthropic Claude
 - Free tier is often enough (Sonnet 4)
 - o 📧 Requires login
 - Best reputation among programmers
 - o 🦚 Claude Artifact
 - emphasis AI safety
 - Transparent with system prompt



NOT UBC approved GenAl tools

- Proprietary
 - Google Gemini 2.5Pro
 - o xAI Grok 4
 - Mistral large 2
 - 0 ...





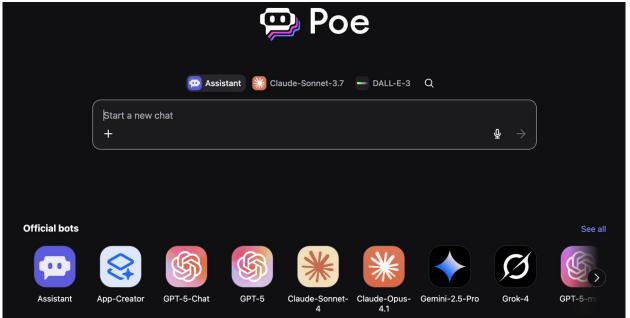
- P Open source/Open weight
 - Meta Llama 4
 - DeepSeek V3.1 MODEL
 - o Kimi K2
 - O ...





Is there a platform where I can try them all?

- **Poe** (open source + proprietary)
 - Subscription based (I used up \$20 limits in a few hours...)



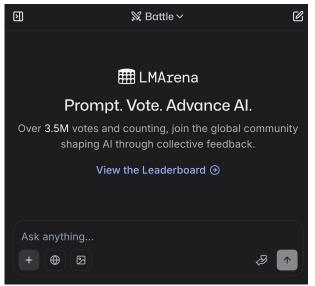


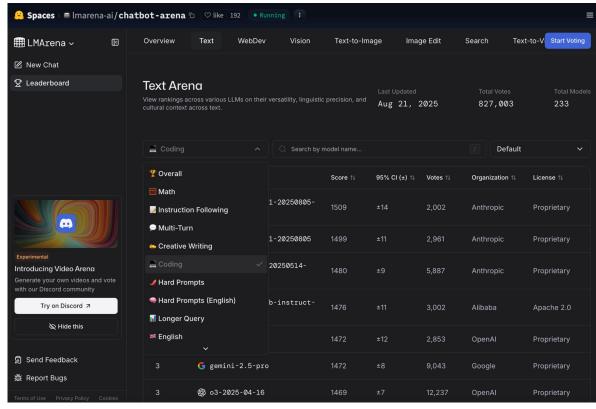
Chat & build with open models



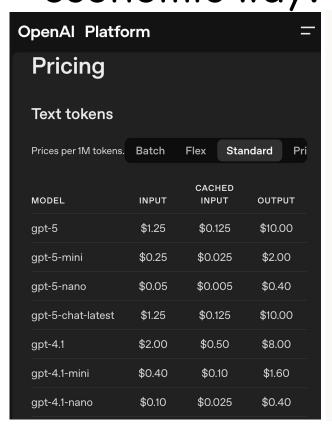
How do I know which model(s) is best for what task?

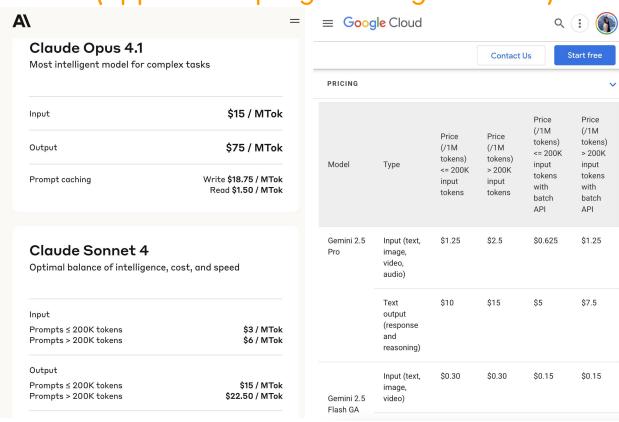
- Chatbot Arena
 - Free to try all models
 - You can vote too!





How can I use proprietary model in an economic way? – API (Application programming interface)

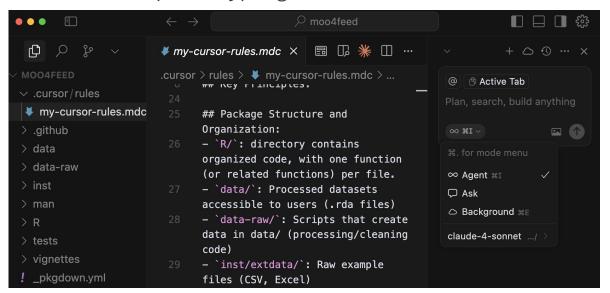


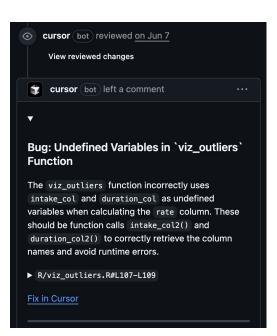


Al agent for coding (IDE)



- \$20-200 USD/month
- VS code + LLM of your choice + tools like MCP (Model context protocol)
- Understand your entire codebase & project
- Popular among developers and start-up companies
- Fast for prototyping





Al agent for coding (Command line)

- Claude Code
 - 9 \$17-200 USD/month
 - This is the best AI agent for coding so far
 - Use it for fun, butDO NOT use this foryour MDS course work



Other Al agent for coding (Price in UDS/month)

VS code extension

- Augment (\$50)
- Github Copilot (\$10)
- Cline (pay by token)

IDE

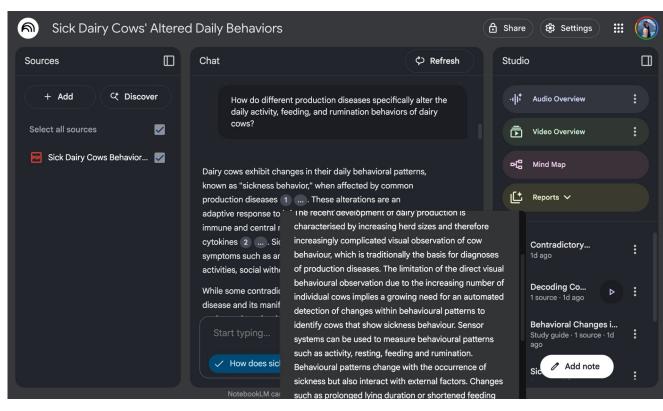
- Amazon Kiro (free/waitlist)
- Windsurf (\$15)
- Trae (\$3-10)
- Replit (\$20)

Command line

- Google Gemini CLI (mostly **free**)
- OpenAI Codex CLI (pay by token)
- Cursor CLI (\$20-200)

Al for reading



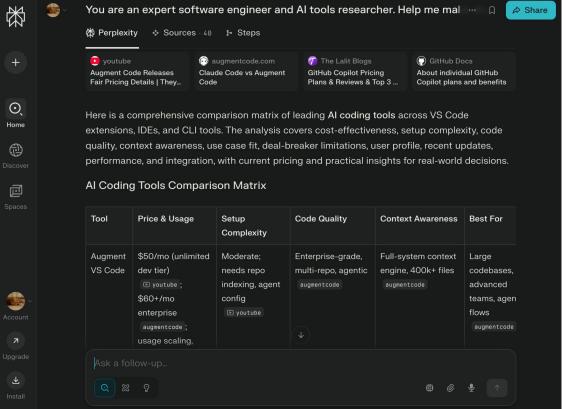


- Free
- To read the full result:



Al-based search engine





- Free tier allows 3
 questions/day
- Pro is \$20 USD/month unlimited questions
- To read the full result & sources:



Prompt engineering tips

- Ask AI to think step by step
- Give AI time to think "Take your time and think carefully before answering"
- Use structured formats Request JSON, numbered lists, or bullet points for answers
- Give AI a persona "You are an expert data scientist with 20 years of experience"
- Provide clear **examples** Show exactly what format or style you want
- Ask for explanations Don't just get answers, ask about the "why" behind them
- Use fun analogies "Explain MCP using LEGO building blocks"
- Ask for alternatives Get multiple options: "Show me 3 different ways to solve this"
- Set clear constraints "You can only answer in 200 words"
- Be polite Good manners really do help! Say "please" and "thank you"
- Be super **specific** More details = better answers
- Manage context window, start new chats for big tasks AI can get overwhelmed with 20+ messages
- Ask questions in **JSON** format- AI loves structured requests

Key messages

YOU are the BOSS of AI! AI is not your boss!

AI can be your assistant, your co-pilot, but you need to be AI's **guide**, AI's **teacher**

AI agents & tools only shine when you know what you are doing

Please collaborate with AI in a responsible way