Using LLMS 101

Week 3

AI Tools and Technologies Agenda

The Simplest Prompt Engineering: Dot and arrow

- The dot - Who are you, what is your perspective
- The arrow - What do you want, where are you going

Complex Prompt Engineering: Five pieces (TBA)

Multimedia Generative AI

- Images

  - bing.com/images/create
  - Stable Diffusion 3 (just released)
  - Stable Diffusion XL (in Poe)
  - Midjourney

- Video

  - runway.ai
  - https://lumalabs.ai/dream-machine/creations

- Audio

  - https://elevenlabs.io/

- Music

  - https://suno.com/

Web Search Enabled Tools

- Microsoft Copilot
- Web version: https://copilot.microsoft.com/
  - requires Microsoft account (can create with GMail account)
- 365 Version:
  - Integration with Office applications
  - Enhancing productivity and creativity

- https://www.perplexity.ai/
  - Conversational search and knowledge retrieval
  - Integration with web search results

Code Generation Tools

- Replit (repl.it)
  - In-browser IDE and coding environment
  - AI-assisted code completion and generation

- GitHub Copilot (paid)
  - AI-powered code completion and suggestion

- Integration with popular IDEs
- Cursor (https://www.cursor.com/)
  - AI-driven code generation and editing
  - Workflow automation and optimization

Use Case - Creating a Project Website

Version 1: Create full web site using any generative AI Version 2: Create Markdown site, use Github Pages References:

- https://www.w3schools.com/ (www, python)
- https://automatetheboringstuff.com/ (python)
- https://pages.github.com/ (GitHub Pages)