

# Introduction & Course Outline

AI Coding Tools

Tech Talent Pipeline, Winter 2026

# AI Coding Tools

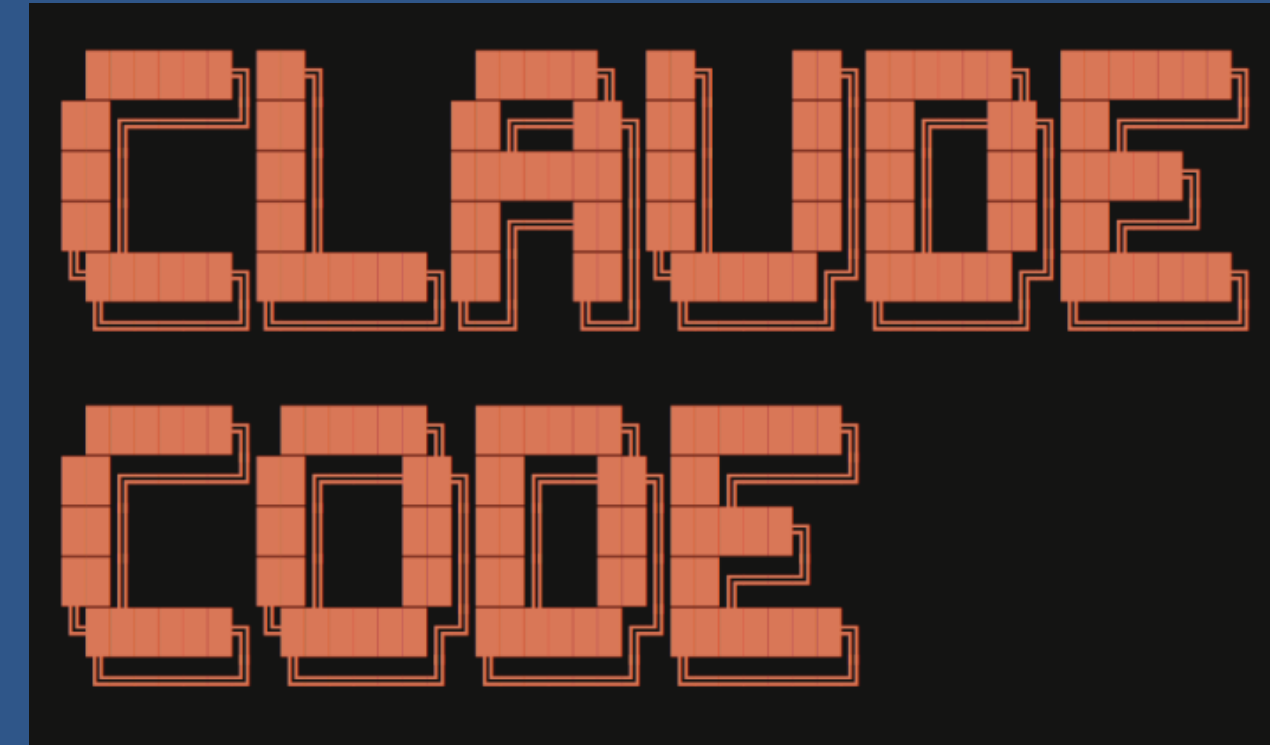
## Basic Terms & Concepts:

- Large Language Models (LLMs)
- Tokens
- Context Window
- Agentic
- Model Context Protocol (MCP)

# Course Outline

- Intro & Setup (1 day)
  - Installing Cursor, ClaudeCode, Warp
- Build A Project From Scratch (4 days)
  - Experiment with various AI coding features
- Explore a Large Open-Source Codebase (7 days)
  - Learn about contribution norms, testing

# Tools To Install



# Daily Procedure

- Lecture / Code Demo (~30 min)
  - Introduce new concepts / tools
  - General Questions / Troubleshooting
- Breakout Rooms
  - Project #1 will be solo, but you'll still be assigned a new breakout room each day
  - Ask each other for help, discuss strategies
  - I will wander through rooms randomly to answer questions
- Submit help tickets in Discord (I'll try to get to them in time!)

# Social Impact of AI

- Mental Health Risks / AI Psychosis
- Theft of intellectual labor
- Stunted Learning, over-dependence
- Market Consolidation / Job Market Instability
- Abuse by Authoritarian Governments
- Environmental Impacts

# Project #1

- (Re)create a Ranked Choice Voting App
  - New Starting Point Repo
  - Users should be able to create polls, send them out, and receive virtual “ballots”
- Solo Project
- Focus on prompts and tests
- The primary goal is exploration, not completion
- Due at 11:59pm on January 8

# Project #2

- You'll choose a real, active open-source project to work on
- Your goal will be to pick an open issue to work on and fix it
- I'll present you with a list of suggested projects once we get closer
- Follow the community norms, ask questions, be a good steward of the codebase



Questions / Code Demo