Assignment 1: Introduction to AI Agents & smol Framework

Learning Objectives

By completing this assignment, you will:

- Set up essential accounts for AI development
- Learn the fundamentals of AI agents through hands-on experience
- Build your first AI agent using the smol framework

Tasks

1. Account Setup (10 points)

Create accounts on the following platforms:

- [Hugging Face](#)
- [OpenAI](#)
- [Anthropic](#)
- [Google AI (Gemini)](#)

For each platform, save your API keys securely - you'll need them later.

2. Complete Hugging Face Course (40 points)

1. Enroll in the [Hugging Face Agents Course Unit 1](#)
2. Complete all sections in Unit 1
3. Take screenshots of your completion status
4. Write a brief summary (200-300 words) of what you learned

3. Build Your First Agent (50 points)

Create a simple but creative AI agent using the smol framework. Your agent should:

- Implement at least one custom tool
- Use chain-of-thought reasoning
- Solve a specific, well-defined problem

Example project ideas:

- A recipe converter that adjusts ingredients based on serving size
- A coding assistant that explains and refactors code
- A travel planner that suggests itineraries based on constraints

Submission Requirements

1. Source code of your agent
2. README.md explaining:
    - What your agent does
    - How to run it
    - Example inputs and outputs
3. Brief reflection on challenges faced and how you overcame them

Evaluation Criteria

- Account setup with proof (10%)
- Course completion with reflection (40%)
- Agent implementation:
    - Functionality (20%)
    - Code quality (15%)
    - Creativity (15%)

Submission Instructions

Submit your assignment as a git repository on github containing:

- Course completion proof and reflection
- Your agent's code repository

Due Date

Two weeks from assignment date

Resources

- [smol Framework Documentation](#)
- [Chain of Thought Prompting Guide](#)
- [Python Environment Setup Guide](#)