Assignment 1

The Journey of AI Presentation

Instructions

1. **Create a presentation** (5-10 slides) on any topic related to the Journey of AI covered in our course material:

   o Traditional AI approaches

   o Machine Learning evolution

   o Deep Learning breakthrough

   o Generative AI development

   o AI reasoning capabilities

   o The progression from structured to unstructured data handling

2. **Include in your presentation**:

   o Timeline of key developments in your chosen area

   o Comparison between different AI paradigms

   o Examples of real-world applications

   o Current limitations and future directions

3. **Add visual elements**:

   o At least one comparison diagram or chart

   o One timeline visualization

4. **Format**:

   o PowerPoint or PDF format

5. **Submit** your completed presentation by the end of the day.

Assignment 2

AI on your Machine

To install Ollama and run DeepSeek R1 1.5B or Llama 3.2 1B locally on Windows or macOS, follow these platform-specific instructions:

Windows Installation

1. Install Ollama

- Download OllamaSetup.exe1

- Run installer

2. Verify Installation

Open Command Prompt/PowerShell: ollama --version

macOS Installation

1. Install Ollama

- Download [Ollama macOS .zip2](Ollama%20macOS%20.zip2)

- Extract and move Ollama.app to Applications

- Launch app and approve security warnings if prompted

2. Install CLI Tools

Open Terminal and run:

curl -fsSL https://ollama.ai/install.sh | sh

Running Models

For DeepSeek R1 1.5B : ollama run deepseek-r1:1.5b

For Llama 3.2 1B : ollama run llama3.2-1b

First execution downloads the model (2.4-3.1GB). Expect 10-30 minute download time

Start Interaction

Example: Write a Python function to calculate Fibonacci numbers

[Model generates code]