PIAIC Sunday Class 03 - Bahria Auditorium (11 August 2024)

1. Prompt Engineering Revision

Steps to Effective Prompt Engineering:

1. **Include Details in Your Query:**

   - The more specific you are, the better the model can understand and provide accurate responses.

2. **Ask the Model to Adopt a Persona:**

   - Specify a role or perspective for the model to take, like a teacher, expert, or friend, to get more tailored responses.

3. **Use Delimiters for Clarity:**

   - Clearly mark different parts of your input using symbols like quotes or brackets. This helps the model distinguish between sections.

4. **Specify Task Steps:**

   - Clearly outline the steps needed to complete a task. This ensures the model follows a structured approach.

5. **Provide Examples:**

   - Include examples in your prompt to guide the model on how you want the output formatted or what content it should include.

6. **Specify Desired Length:**

   - Clearly mention how long or short you want the output to be. This can help manage the level of detail.

2. Chain of Thought:

- **Steps Definition:** Clearly define the steps in a process.

- **Brainstorming:** Generate a wide range of ideas.

- **Mind Mapping:** Visual representation of ideas and how they connect.

3. Few-Shot Prompting:

- **Summarization Protocol:** Provide a few examples (shots) to help the model understand the type of output you want, such as summarizing a field of study or a job description.

4. Basic Commands:

- **echo "hello world"**:   Prints "hello world" to the screen.

- **Ls**:   Lists all files and folders in the current directory.

- **cd /**:   Changes the current directory to the root directory.

- **mkdir [directory_name]**:   Creates a new directory with the specified name.

- **pwd**:   Displays the current directory path.

- **cd code**:   Changes the directory to a folder named "code."

5. Hello World Image:

- Access the Hello World Docker image at:
  Hello World Image

6. Docker Hub:

- Visit Docker Hub to explore available Docker images:
  Docker Hub

7. Path Types:

- **Absolute Path:**

  - The full path to a file or folder, starting from the root directory (e.g., /home/user/documents).

- **Relative Path:**

  - The path relative to the current directory, not starting from the root (e.g., documents when you're in /home/user).