AI Models: Practical Demonstration

ChatGPT

ChatGPT is an interface built on OpenAI's proprietary GPT model, which comes in various versions (e.g., GPT-3.5, GPT-4). It is widely used for various tasks, including threat analysis, incident response, and other cybersecurity applications. However, it exclusively uses OpenAI's GPT models and does not support external LLMs.

- It provides a conversational interface for discussing ideas, solving problems, and generating content.

- **Website**: https://chatgpt.com/

Introducing Ollama

Ollama is a tool that allows you to run large language models (LLMs) locally. This is beneficial for data security and offline use cases, making it ideal for sensitive applications in cybersecurity.

- **Key Features**:
    - Privacy-focused (run locally).
    - Supports various LLMs.
    - Lightweight and easy to use.

- **Website**: https://ollama.com/

Run Ollama Locally

Follow these steps to set up and use Ollama locally:

- **Visit the Ollama website for installation details**

    - Link: https://ollama.com/

- **Install Ollama on your system**

    - **For Windows:**
        - Download the installer from the Ollama website:

        - `https://ollama.com/download/windows`

    - **For Linux:**
        - Run the following command in your terminal:

        - `curl -fsSL https://ollama.com/install.sh | sh`

        - This command downloads and installs Ollama on your system.

- **Access the Local Interface**
    - After installation, open your browser and visit:

    - **http://127.0.0.1:11434/**

- - This URL opens the Ollama local interface.
- **Run a Model**
  - Use the following command to run a specific model:
  - `ollama run qwen:0.5b`
  - **What it does**: This command runs the "qwen" model with a size of 0.5 billion parameters. Replace the model name and version if you want to try others.
- **Remove a Model**
  - To remove the model and free up space, use:
  - `ollama rm qwen:0.5b`

Running Ollama in Google Colab

For those who want a cloud-based solution, Ollama can also be set up in Google Colab.

- **Link to the Colab Notebook**: https://github.com/AmmarAamir786/Run_Ollama_In_Colab/blob/main/Run_Ollama_In_Colab.ipynb
- **Advantages**:
  - No need for local installation.
  - Access from any device with internet.

Contact Us

If you have any questions or would like to connect, feel free to reach out:

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