

1. Dependencies

Ensure the following dependencies are installed to set up and run the project:

1. **Python:** Version 3.8 or above.
2. **IDE:** Use Visual Studio Code (VS Code) for development.

Libraries/Packages:

Install the following Python libraries using pip:

- openai: For integrating OpenAI APIs.
- langchain: To support text processing and embeddings.
- pandas: For data manipulation and analysis.
- numpy: For numerical computations.
- scikit-learn: For machine learning operations.
- flask and fastapi: For creating APIs and web applications.
- pydantic: For data validation and settings management.
- python-dotenv: To manage environment variables.

Example Installation Command:

```
pip install openai langchain pandas numpy scikit-learn flask fastapi pydantic python-dotenv
```