# Running the Flask Application

## Prerequisites

1. **Python Installation**: Ensure Python is installed on your system. You can download it from [python.org](https://www.python.org/downloads/) and follow the installation instructions.
2. **Python Virtual Environment (Optional but Recommended)**: It's good practice to use virtual environments to manage dependencies for Python projects. If you're not familiar, you can create one using the following commands in your terminal:

#### Virtual env On Windows

python -m venv venv

venv\Scripts\activate

1. **Dependencies**: Install the required Python packages using pip while in the virtual environment:

pip install flask pandas requests scikit-learn spacy azure-maps-service matplotlib

1. Run this jupyter notebook to prepare the data and train the model - [SchoolPython/PrinciplesOfML/Module8/K-Means\_DataAnalysis\_Module8.ipynb at main · ArunSaxena200/SchoolPython (github.com)](https://github.com/ArunSaxena200/SchoolPython/blob/main/PrinciplesOfML/Module8/K-Means_DataAnalysis_Module8.ipynb)

## Running the Flask App

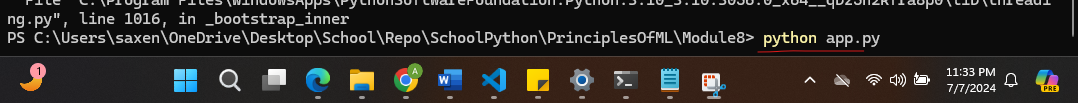
1. **Clone the Repository**:

git clone [SchoolPython/PrinciplesOfML/Module8 at main · ArunSaxena200/SchoolPython (github.com)](https://github.com/ArunSaxena200/SchoolPython/tree/main/PrinciplesOfML/Module8)

cd [SchoolPython/PrinciplesOfML/Module8 at main · ArunSaxena200/SchoolPython (github.com)](https://github.com/ArunSaxena200/SchoolPython/tree/main/PrinciplesOfML/Module8)

1. **Set Environment Variables**: Ensure you have set up the necessary environment variables, especially for Azure Maps API key (SUBSCRIPTION\_KEY) – for now I am using my personal key and its hardcoded in the code. So no action here.
2. **Run the Flask Application**: Start the Flask development server.

Please navigate to the cloned directory –> right click –> open command prompt in admin permissions-> say -> python app.py



Start server should look like this

A screenshot of a computer

Description automatically generated

## Run Time

The runtime window will look like this

A screenshot of a chatbot

Description automatically generated

Here you can enter the information and play around with the chatbot

**Conclusion**

This guide provides a straightforward method to set up and run your Flask application locally. Ensure all dependencies are installed and environment variables are correctly set to avoid any issues during setup and execution. By following these steps, you should be able to run the application and interact with it through the provided endpoints.