

## User Guide

1. Install Python on your machine, if not already installed (preferably Python 3.12.5 because that is the version this project was developed with)
2. Download and unzip *FraudDetectionModelSubmission*. Note the location of the unzipped folder for use in Step 2.
3. Open Command Prompt and navigate into the unzipped *FraudDetectionModelSubmission* directory
  - a. Command Prompt command: “cd C:\[path to FraudDetectionModelSubmission]”
4. Create a virtual environment inside the *FraudDetectionModelSubmission* directory (highly recommended)
  - a. Command Prompt command: “python -m venv venv”
5. Activate the virtual environment
  - a. Command Prompt command: “venv\Scripts\activate”
6. Install required dependencies
  - a. Command Prompt command: “pip install -r requirements.txt”
  - b. Install Jupyter notebook: “pip install notebook”
7. Run Jupyter Notebook
  - a. Command Prompt command: “jupyter notebook”
  - b. Select the correct kernel if needed
8. Access the notebook “fraud\_detection\_notebook.ipynb” via the Jupyter Notebook GUI
9. To interact with the model, scroll about halfway down to the interactive widgets. The prediction at the bottom will update as widgets are changed.

Transaction Amount  1500.00

Average Transaction Amount  1500.00

Credit Limit  3500.00

Merchant Type

Transaction Type

Currency

City

'Fraud'

10. When done reviewing the notebook, deactivate Jupyter Notebook using CTRL + C in the Command Prompt
11. When done reviewing the project, deactivate the virtual environment (Command Prompt command: “deactivate”)

The items regarding virtual environments are based on: <https://medium.com/@lucasthedev/a-comprehensive-guide-to-python-virtual-environments-with-venv-cb76fea6a550>