

ML Flow Set Up

Setting up a python virtual environment and MLflow on Window

1. Create Virtual environment at C:\
 - Open CMD
 - Change directory to C:\
 - Create Python virtual environment from the following command:
 - i. `python -m venv <Environment_Name>`
 - ii. E.g. `python -m venv FinalProjectEnv`
2. Activate the environment
 - `<Environment_Name>\Scripts\activate`
 - E.g. `FinalProjectEnv\Scripts\activate`
3. Install ML Flow library in the Python virtual environment from the following command:
 - `pip install mlflow`
4. Install Jupyter and ipykernel
 - `pip install ipykernel`
5. Add your env to Jupyter (on VScode):
 - Open project folder
 - Command Palette (Ctrl+Shift+P)
 - Select Python: Select Interpreter
 - Select Enter Interpret path...
 - Select Find...
 - Choose: `./<Environment_Name>/Scripts/python.exe`
6. Select kernel (On VScode)
 - Open Jupyter Notebook
 - Click on Select Kernel
 - Choose `<Environment_Name>`

*If the file is .py, choose the kernel by Ctrl+Shift+P and select the `<Environment_Name>`

*Install python + jupyter extension, if it is not installed.

Start ML Flow

1. Open CMD
 - Change directory to the folder where mlruns folder is located from the following command:
 - `cd path/to/the/folder`
 - E.g. `C:\Users\Asus\FinalProjectOperAI`
2. Activate the environment on the project folder
 - `C:\<Environment_Name>\Scripts\activate`
 - E.g. `C:\FinalProjectEnv\Scripts\activate`
3. Start ML Flow with the following command:
 - `mlflow ui --backend-store-uri file:///c:/Users/Asus/FinalProjectOperAI/mlruns`
 - Open the following URL to access ML Flow web browser:
 - <http://127.0.0.1:5000>
4. In your python file, include the following command:
 - `mlflow.set_tracking_uri(f'sqlite:///{{os.path.abspath('../mlflow.db')}}')`