**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:
     1. python -m venv <Environment\_Name>
     2. 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')}")