**Setup Files:**

**Model\_dataset.xlsx** , **Model\_dataset.pkl** : Dataset used for Training the model

**df\_hospital\_imputed.xlsx** , **df\_hospital\_imputed.pkl** : Imputed Dataset used for Training the model

**model\_knnrf51.pkl** : Random Forest Classifier model in pickle format based on production dataset

**Stress\_Test.postman\_test\_run.json** : Postman stress test result for waitress server

**Curl Request.txt** : Curl Command for POST request to endpoint.

**Python CURL POST request.txt** : Python code for POST request to endpoint.

**requirements.txt** : All required python packages with their versions for installation in virtual environment.

**RF51\_features\_importance.xlsx, RF51\_features\_importance.pkl :** List of Features and their importance score based on Random Forest Model.

**/templates/getscore.html** : HTML Form for POST request to Endpoint.

**server.py** : Execute this file to start the waitress server for production.

**/noninvasive/df\_NI\_hospital.pkl: NON-INVASIVE model dataset**

**/noninvasive/model\_noninvasiveRF.pkl : RandomForest Model for Non-Invasive Dataset**

**/noninvasive/RF\_noninvasivefeatures\_importances.pkl: List of Features and importance for Non-Invasive RandomForest Model**

**/templates/getniscore.html: Template form for to get NonInvasive Score**

**Installation Steps:**

**Step1:** Open terminal and navigate to project folder: “06\_PredictionCode\_Online”

**Step2:** Create a virtual environment for the folder using this command: python3 -m venv

**Step3:** Activate the environment : **. venv/bin/activate**

**Step4:** After activation install all required python packages for project using this command:

pip install -r ‘requirements.txt’

**Step5:**  To Start the server and run the application -> python server.py

**Step6:** Application URL access overall -> [127.0.0.1:5000/getscore](http://127.0.0.1:5000/noninvasive/getniscore)

Application URL access non invasive -> http://127.0.0.1:5000/noninvasive/getniscore

**Step7:** Input Data in the form as below: **Curl Request.txt**