# Basic ML-Model Deployment using Flask

# Pre-requisite for windows

- Install Jupyter notebook ( anaconda)
- Install Python IDE/code-editor (preferred  Spyder as it is default with anaconda)
- Python version >= 3.7.X

# Execution in 4 Steps

Step 1 : Execute '**Train_Deploy**' in Jupyter notebook

Step 2 : Execute '**Test_ Deploy**' in Jupyter notebook

Step 3 : Open project 'basic-ml-model-deploy' in (Spyder) IDE and Run file '**app.py**'

Step 4 : Our Model gets hosted at ***http://127.0.0.1:5000/*** ; paste this URL on web browser and enter input values and press 'submit' to get loan_status prediction


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# Train_Deploy

- Fetches loan_status dataset and build a full pipeline model on it
- Final model is saved as pickle file i.e. a serialized binary file


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# Test_Deploy

- Generates a sample input feature set ( single record)
- Fetches the previously saved full pipeline model i.e. pickle file
- Predicts target feature using fetched model


# basic-ml-model-deploy : app.py

- Uses flask for model deployment
- Templates folder stores .html files
- In app.py, main function invokes main.html on localhost (default port 5000)
- Once form (main.html) is submitted, data is posted into fetched model as a feature record and target is predicted (similar to Test_Deploy)

# Thank You

For any query mail @ kaustuv.kunal@greatlearning.in