Project Name: Machine Learning Model Deployment on Flask

Internship Batch: LISUM01

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# Aim:

This project is a demo for ML model deployment on flask.

# Prerequisites:

* Scikit Learn
* Pandas
* Flask

# Project Structure:

Project has following steps

* Toy Data Selection and Model Creation
* Flask Application
* HTML Page for the Application

## Toy Data Selection and Model Creation:

This project is using ‘hiring.csv’ file for model creation. File ‘model.py’ has the codes for prediction model which is trying to predict salary of employee based on their experience, test score and interview score.

## Flask Application:

File ‘app.py’ contains Flask API which receives data from API calls and returns the predicted value.

## HTML Page for the Application:

File ‘index.html’ contains template which allows user to enter the employee data.

# Running the Project:

* On command prompt ensure that project home directory is selected. To run the ML model, write following command

Text

Description automatically generated

This will create serialization version of model in pickle file ‘model.pkl’.

Graphical user interface, text, application

Description automatically generated

* Run app.py using below command to start Flask API.

Text

Description automatically generated

Flask API will run on port 5000 as shown in the image.

* Now copy the http: link in the command prompt and paste it in any browser this will navigate to html web page where user can enter the values.

Graphical user interface, text, application, email

Description automatically generated

* User can enter the values in the page and prediction will be shown.

Graphical user interface, text, application

Description automatically generated

API request can be seen on command prompt as well.

Text

Description automatically generated

In above image GET and POST request can be seen.