**Deploying ML Model using Flask**

This is a simple project to elaborate how to deploy a Machine Learning model using Flask API

**Prerequisites**

You must have Scikit Learn, Pandas (for Machine Leraning Model) and Flask (for API) installed.

Flask version: 0.12.2 conda install flask=0.12.2 (or) pip install Flask==0.12.2

**Project Structure**

This project has four major parts :

1. model.py - This contains code fot our Machine Learning model to predict employee salaries absed on trainign data in 'hiring.csv' file.
2. app.py - This contains Flask APIs that receives employee details through GUI or API calls, computes the precited value based on our model and returns it.
3. template - This folder contains the HTML template (index.html) to allow user to enter employee detail and displays the predicted employee salary.
4. static - This folder contains the css folder with style.css file which has the styling required for out index.html file.

**Running the project**

1. Ensure that you are in the project home directory. Create the machine learning model by running below command from command prompt -

python model.py

This would create a serialized version of our model into a file model.pkl

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

python app.py

By default, flask will run on port 5000.

1. Navigate to URL <http://127.0.0.1:5000/> (or) [http://localhost:5000](http://localhost:5000/)

You should be able to view the homepage.

Enter valid numerical values in all 3 input boxes and hit Predict.

If everything goes well, you should be able to see the predcited salary vaule on the HTML page! check the output here: <http://127.0.0.1:5000/predict>

**About**

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