

Deploying the Machine Learning Model with the help of Flask

This is a basic project that demonstrates how to use the Flask API to deploy a machine learning model.

Requirements:

The following need to be installed for Machine Learning Model and API

- ✓ scikit Learn,
- ✓ Pandas and
- ✓ Flask

Flask version: 0.12.2

pip install Flask==0.12.2

Project Design:

There are 4 main sections to this project:

- model.py - Based on training data in the "trav.csv" file, this file provides code for a model that predicts if the insurance has been claimed or not.
- app.py - This file contains Flask APIs that use GUI inputs to predict if or not the insurance has been claimed using models.
- template - This file contains an HTML template (index.html) that users can use to submit their information and see if their insurance was claimed or not.
- static - The style.css file, which is in the CSS folder, includes the necessary design for our index.html file.

Project Execution:

1. Ensure that you are in the project home directory.
2. Run application.py with the following command to launch the Flask API. Flask will operate by default on port 5000.
3. Go to the following address: <http://127.0.0.1:5000/> or <http://localhost:5000> The homepage ought to be accessible. Input accurate numbers into each input box before selecting Predict. After pressing the submit button, the HTML website displayed the expected salary figure! Verify the output right here: <http://127.0.0.1:5000/predict>