Data Science Intern at Data Glacier

Week 4: Deployment on Flask

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Batch Code: LISUM12

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Link: https://github.com/ilkecandan/Flask-Deployment.git

1. Introduction

In this project I have developed a machine learning system that predicts which passengers survived the Titanic shipwreck.

2. Data Information

The information is divided into two categories:

practice set (train.csv)

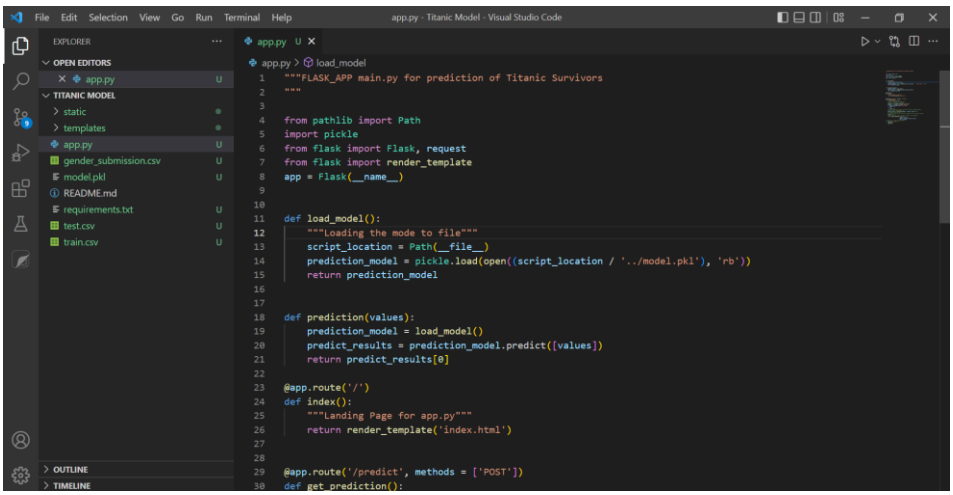
test setup (test.csv)

Machine learning models are constructed using the training set.

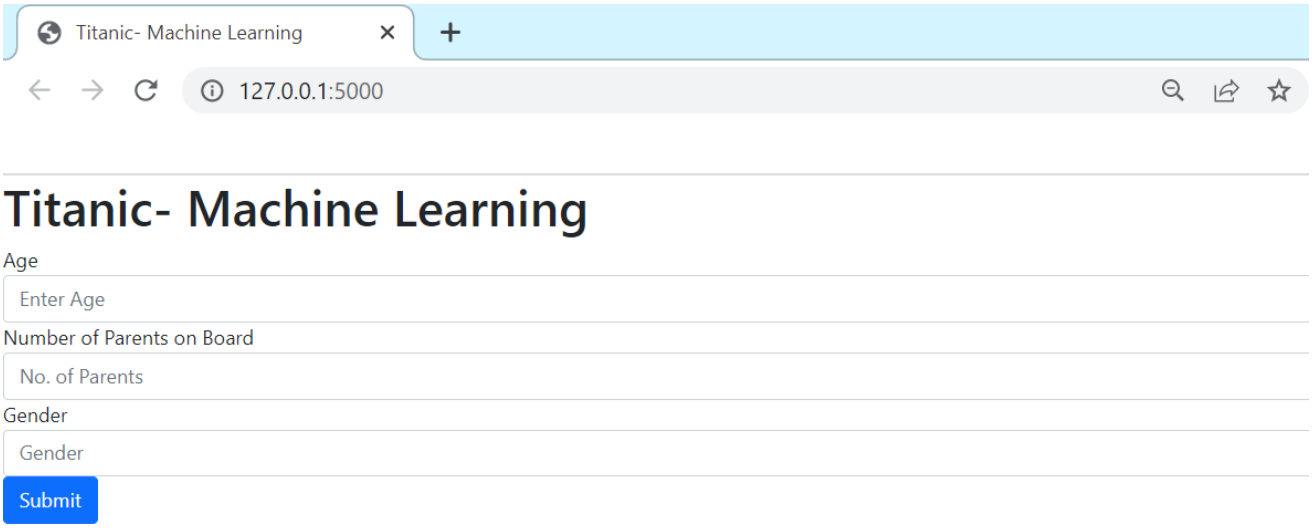
	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
2	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292		Q
3	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47	1	0	363272	7		S
4	894	2	Myles, Mr. Thomas Francis	male	62	0	0	240276	9.6875		Q
5	895	3	Wirz, Mr. Albert	male	27	0	0	315154	8.6625		S
6	896	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22	1	1	3101298	12.2875		S
7	897	3	Svensson, Mr. Johan Cervin	male	14	0	0	7538	9.225		S
8	898	3	Connolly, Miss. Kate	female	30	0	0	330972	7.6292		Q
9	899	2	Caldwell, Mr. Albert Francis	male	26	1	1	248738	29		S
10	900	3	Abrahim, Mrs. Joseph (Sophie Halaut Easu)	female	18	0	0	2657	7.2292		C
11	901	3	Davies, Mr. John Samuel	male	21	2	0	A/4 48871	24.15		S
12	902	3	Ilieff, Mr. Ylio	male		0	0	349220	7.8958		S
13	903	1	Jones, Mr. Charles Cresson	male	46	0	0	694	26		S

3- Code

App.py


File Edit Selection View Go Run Terminal Help
app.py - Titanic Model - Visual Studio Code
EXPLORER
OPEN EDITORS
app.py
TITANIC MODEL
static
templates
app.py
gender_submission.csv
model.pkl
README.md
requirements.txt
test.csv
train.csv
OUTLINE
TIMELINE
app.py > load_model
"""FLASK_APP main.py for prediction of Titanic Survivors
"""
from pathlib import Path
import pickle
from flask import Flask, request
from flask import render_template
app = Flask(__name__)
def load_model():
"""Loading the mode to file"""
script_location = Path(__file__)
prediction_model = pickle.load(open((script_location / '../model.pkl'), 'rb'))
return prediction_model
def prediction(values):
prediction_model = load_model()
predict_results = prediction_model.predict([values])
return predict_results[0]
@app.route('/')
def index():
"""Landing Page for app.py"""
return render_template('index.html')
@app.route('/predict', methods = ['POST'])
def get_prediction():

Result:


Titanic- Machine Learning
127.0.0.1:5000
Titanic- Machine Learning
Age
Enter Age
Number of Parents on Board
No. of Parents
Gender
Gender
Submit