DE-9/7/22 12:00 pm

## FLASK



\* Here There Problem Statement, We have data of Experience and test score and Interview Score of past data,

We have to predict? The Salary of new Candidates.

import numpy as no Import pandas as pd = pd. read\_csv ("hiring.csv")

out

X	X2	X3	y
Experience	test_score	interview Score	Salary
NaN	8.0	9	50000
NaN	8.0	6	45000
5.0	6.0	7	60000
2.0	10.0	10	65000
7.0	9.0	6	70000
3.0	1.0	10	62000
10.0	NAN	7	72000
11.0	7.0	8	80000

## Data cleaning

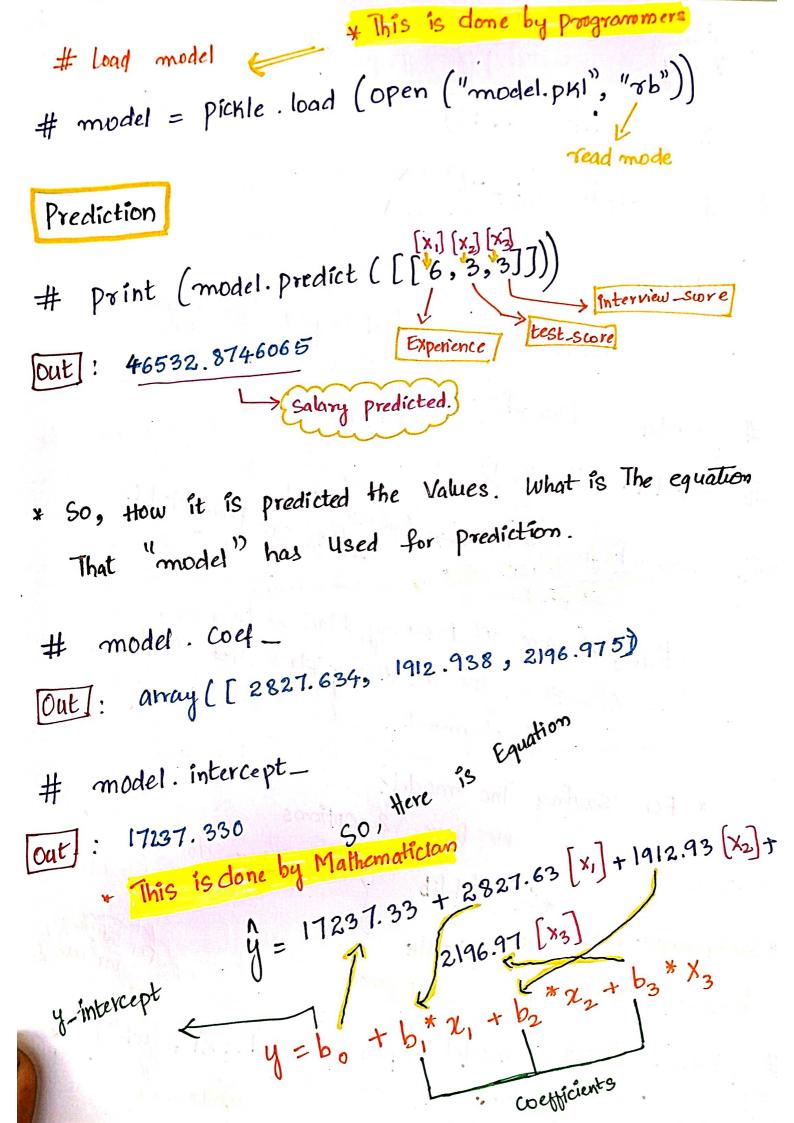
df ["experience"]. fillma (o, inplace = True)

# df ("test\_score"]. fill ma [df ["test\_score"]. mean () inplace = True)

Filled with "0" and median values.

```
xey
# X = df.iloc [:,:3]
  y = df. iloc [:, -1]
 modelling
                                         Linear Regression
     from Sklearn. Linear-model import
           = Linear Regression ()
 # model
# model. fit (2,4)
     Linear Regression () -> Assume That, Final Model.

This is our
        Here, We are not focusing Machine learning
            Algorithm. We are Using Flask for
                   Deployement
     * For Saving The model.
                     we have 2 options
                  *1. joblib
# Saving model to disk
                  * 2. Pickle
  import Pickle
# pickle. dump (model, open ("model.pkl", "wb")
Our Create a PKI File 7 came in current working directory writem
```



```
So, How mon - Programmy can
           The prediction.
Here, we Use Flask. (Web Frame Work)
      Alhere, Me Host Our Machine Learing Model
* Where Deployment will be done?
       1. Website
       2. apps (Androids, ios)
       3. cloud (Azure, Aws)
   As, Per The client requirement, whe have to Deploy Our
            Model.
            Hips: // Parte. Greek up
code.
 împort numpy as np
 From flask amport Flask, request, render-template
 import proble & allof
 app = Flask (-- name --) (# initalization)
 model = pickle. load (open ("model.pkl", "ob")
                   Load The model as pickle file.
  (a) app. voute ("/") = In flash redirect to URL(1)
                                      where it has togo)
      def home (): > initial home page (URL)
           return render-template ("Index.html")
                   open The template
```

```
HTML
```

## Salary Prediction Web Frame

:- Index. html

2! DOCTYPE html7

< html >

https://codepen.io/frytyler/pen/Egdtg--> <!-- From

Lhead >

< meta charset = "UTF-8">

< title > ML API </title>

Llink href = "https://fonts. Googleapis. Com/css? family = Pacifico" rel = "Style Sheet "type = "text/cs

Llink href = "https://fonts. Google apis. com/css? family = Arimo" rel = "Style sheet" type = "text/c

< link href = "https://fonts.googleapis.com/css? family = Hind: 300' vel = "Style Sheet"

type = "text/css" > </ri>

// Link rel = "Style Sheet" href = " {\( \) url - for ("static)

filname = " css /style. css") }}">

4lhead 7

<br/>
Lbody 7

class = "login" > Lha > Predict Salary Analysis 2/h, > z div

```
2! -- Main Input For Receiving Query To our ML -->
Lform action = "{{ url-for ("Predict")}}" methods = "Post">
  Linput type = "text" name = "experience"
                   Place holder = "Experience" required= required/>
      Linput type = "text" name = "test-score"
             place holder = "Test Score" required = "required">
          L'input type = "text" name = "interview_Score"
      place holder = "Interview Score" required="requires
        Lbutton type = "Submit" class = "ben ben - primary
         ben-block-large 17 predict of button>
         16r7
          of Prediction - text 33
                        Predict Salary Analysis
      2 div 7
Zbody >
                          {{ Prediction-text }}
< | html 7
```

```
# @ app. route ("/ predict", methods = ["POST"])
                    It reads The Values whatever
       def Predict (): You have posted in the Url.
            int_features = (int (x) for x in request form.
                         exores in Values ()] -> this is list comprehe
             final - features = [np. array (int-features)]
                                        Converts into array
                       = model . Predict (final -features)
             Prediction
                                    on array => model. predict (2,4,9)
               Output = round (Prediction [0], 2)
              return render-template ("index.html", Prediction
                           text = "Employee Salary Should be $1)
                            · format (output))
  if __name__ = "main__"
           app. run (debug = True)
```