

Week 5: Deployment on Heroku

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INTRODUCTION

In this project, we are going to deploy a machine learning model using the Heroku Framework. As a demonstration, our model helps to predict the salary of an employee based on certain features.

DATASET(hiring.csv)-

This dataset contains records of job candidates with columns for their experience, test score, interview score, and salary offered. Some values are missing or non-numeric, which may require cleaning for analysis. The dataset shows how different levels of experience, test, and interview scores correspond to various salary offers.

Model.py- First we are going to run the model.py file. The code file reads a dataset from a CSV file, processes it by filling missing values and converting textual experience data to integers. It then trains a Linear Regression model using the entire dataset and saves the trained model to the model.pkl file. Finally, it loads the saved model and makes a prediction for a given set of input values. This approach ensures the model is preserved for future use and demonstrates its ability to predict salary based on provided features.

App.py- The code loads a pre-trained model from a file named `model.pkl` using the `pickle` module. It has two main routes: the root route (`/`) that renders an `index.html` template to serve as the home page, and a `/predict` route that handles POST requests for making predictions. When a user submits the form on the home page, the `/predict` route extracts the form data, converts it into an appropriate format for the model, and makes a prediction. The predicted salary is then rounded to two decimal places and displayed back on the `index.html` page. The code includes error handling to ensure that invalid inputs or other exceptions are gracefully managed, providing appropriate feedback to the user. Finally, the app runs in debug mode when executed directly.

Deployment:

Salesforce Platform

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Connected to RA190400/Data-Glaciers-Intern by RA190400

Disconnect...

Releases in the activity feed link to GitHub to view commit diffs

Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Enable automatic deploys from GitHub

Every push to the branch you specify here will deploy a new version of this app. Deploys happen automatically; be sure that this branch is always in a deployable state and any tests have passed before you push. Learn more.

Choose a branch to deploy

main

Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Enable Automatic Deploys

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. Learn more.

Choose a branch to deploy

main

Deploy Branch

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Salesforce Platform

HEROKU

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main

Deploy Branch

Receive code from GitHub

Build main (43ec98e9)

Installing requirements with pip

Discovering process types

Procfile declares types -> web

Compressing...

Done: 158.5M

Launching...

Released v12

https://salaryprediction-79411aa79db7.herokuapp.com/ deployed to Heroku

Autoscroll with output

View build log

Release phase

Deploy to Heroku

Predict Salary Analysis

Experience Test Score Interview Score Predict