PARTH PATEL - 100901183

AIDI – 2004 AI IN ENTERPRISE SYSTEM – LAB#4

**Problem Statement:**

My task with creating a web-based fish species prediction system. The system should allow users to input fish parameters such as Weight, Length1, Length2, Length3, Height, and Width. Based on these input values, the system will predict the species of the fish using a pre-trained machine learning model.

To achieve this, I need to implement the following components:

1. Create a Flask web application: Develop a Flask web application to serve as the backend for the fish species prediction system. The Flask app should include an HTML form that collects the fish parameters from the user.

2. Pre-trained Machine Learning Model: Train a Decision Tree classifier or use any other machine learning model of your choice on a fish species dataset. Save the trained model using joblib to a file (e.g., 'fish\_species\_model.pkl').

3. Connect the Model with Flask App: Load the pre-trained model in the Flask app and use it to predict the species based on the input fish parameters provided by the user through the HTML form.

4. Display the Prediction: Display the predicted fish species to the user on the web page after the user submits the form.

The goal is to create a user-friendly and interactive fish species prediction system that allows users to obtain the predicted species for any given set of fish parameters.

**Heroku URL**: - <https://fish-predict-1248c8ce0ec2.herokuapp.com/>

**GitHub URL**: - <https://github.com/PARTHKPATIDAR/fish-prediction>

1. The Home page of Heroku that shows my name.

A screenshot of a computer

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1. My app names

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1. Screenshot showing I have established the connection between Heroku and your GitHub Repo.

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1. Screenshot of Build log

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1. The Screenshot indicating my model was successfully launched.

A screenshot of a computer

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1. App making predictions.

A screenshot of a computer screen

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