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# How to Deploy Machine Learning Models

The easiest way to deploy machine learning models on the web



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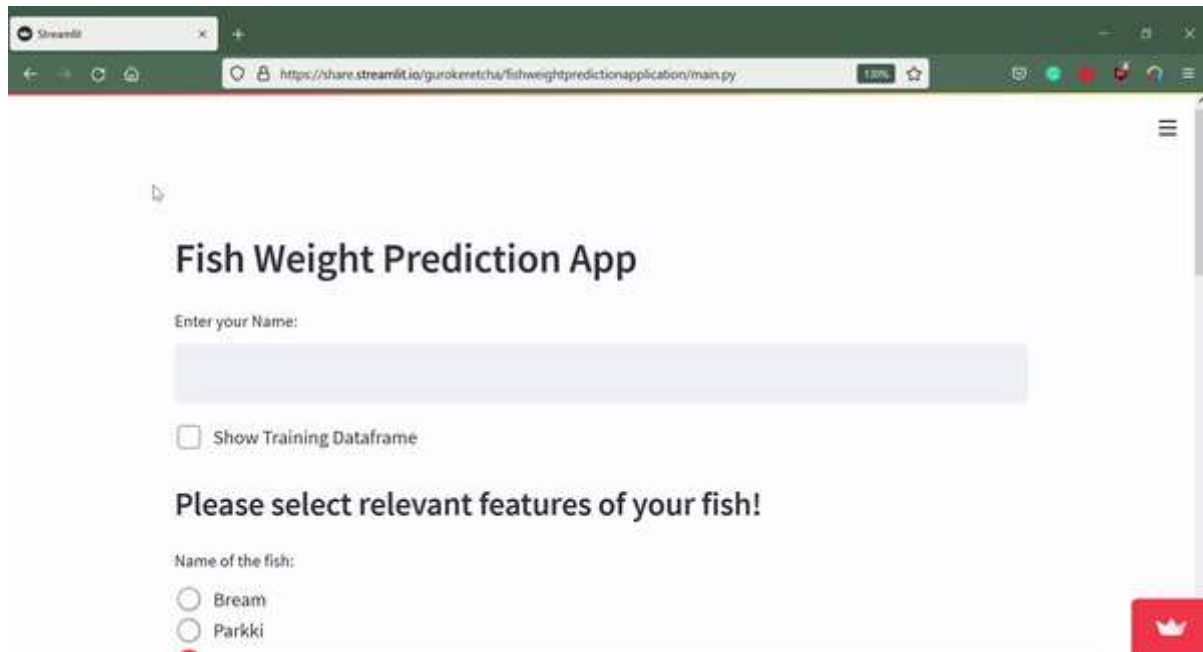
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## Introduction

I will introduce the easiest way to deploy machine learning applications on the web. In the previous notebooks, I have built machine learning models using linear and tree-based models. It turned out that hyper tuned XGboost model performed best. That is why today we will build a Fish Weight Prediction web application using XGboost. In general, there are different options to deploy ML models, such as Flask, Django, Streamlit, etc. Today I will use Streamlit because it is the easiest and faster way to do it and it does not require any web development knowledge.



ML model deployment demo(Photo by the author)

- Introduction
- Fish Weight Prediction Application
- How was it done?
- Conclusion:

## Fish Weight Prediction Application

You can see the Demo [HERE](#).

You can see GitHub code [HERE](#).

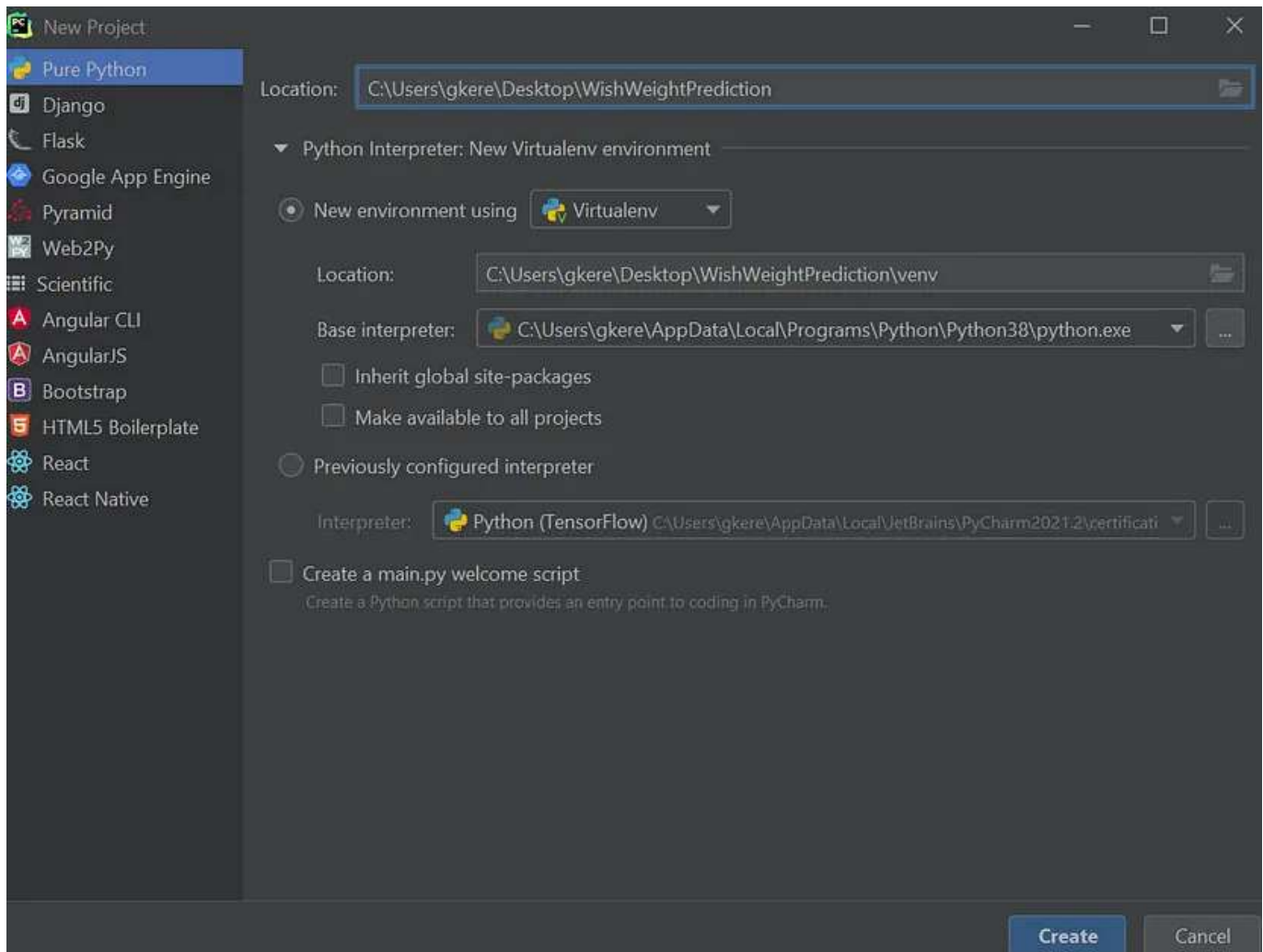
## How was it done?

There are three main python files to build the application.

1. [model.py](#) — Build ML model and Save it.
2. [prediction.py](#) — Test saved ML model.
3. [main.py](#) — the main file to run the web app.

Here are the 7 steps to follow in order to build and deploy the ML project by yourself.

## Step 1: Create a new virtual environment using Pycharm IDE.



Pycharm IDE, Photo by the author

## Step 2: Install necessary libraries.

Here in [requirements.txt](#), I created all necessary libraries to install. You can download the file and install it using:

```
pip install -r /path/to/requirements.txt
```

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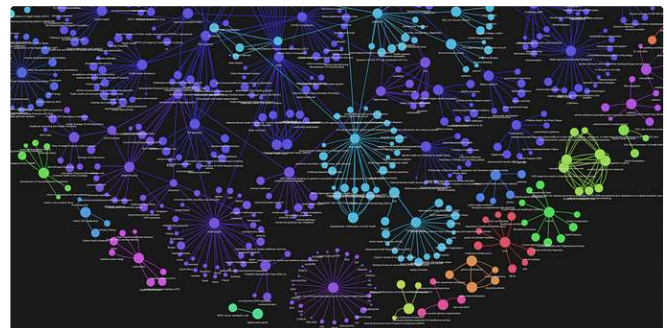
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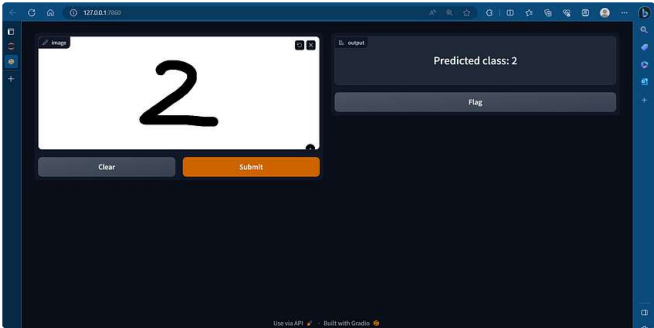
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