



# Automated Training and Deployment of House Predictor Model in AWS



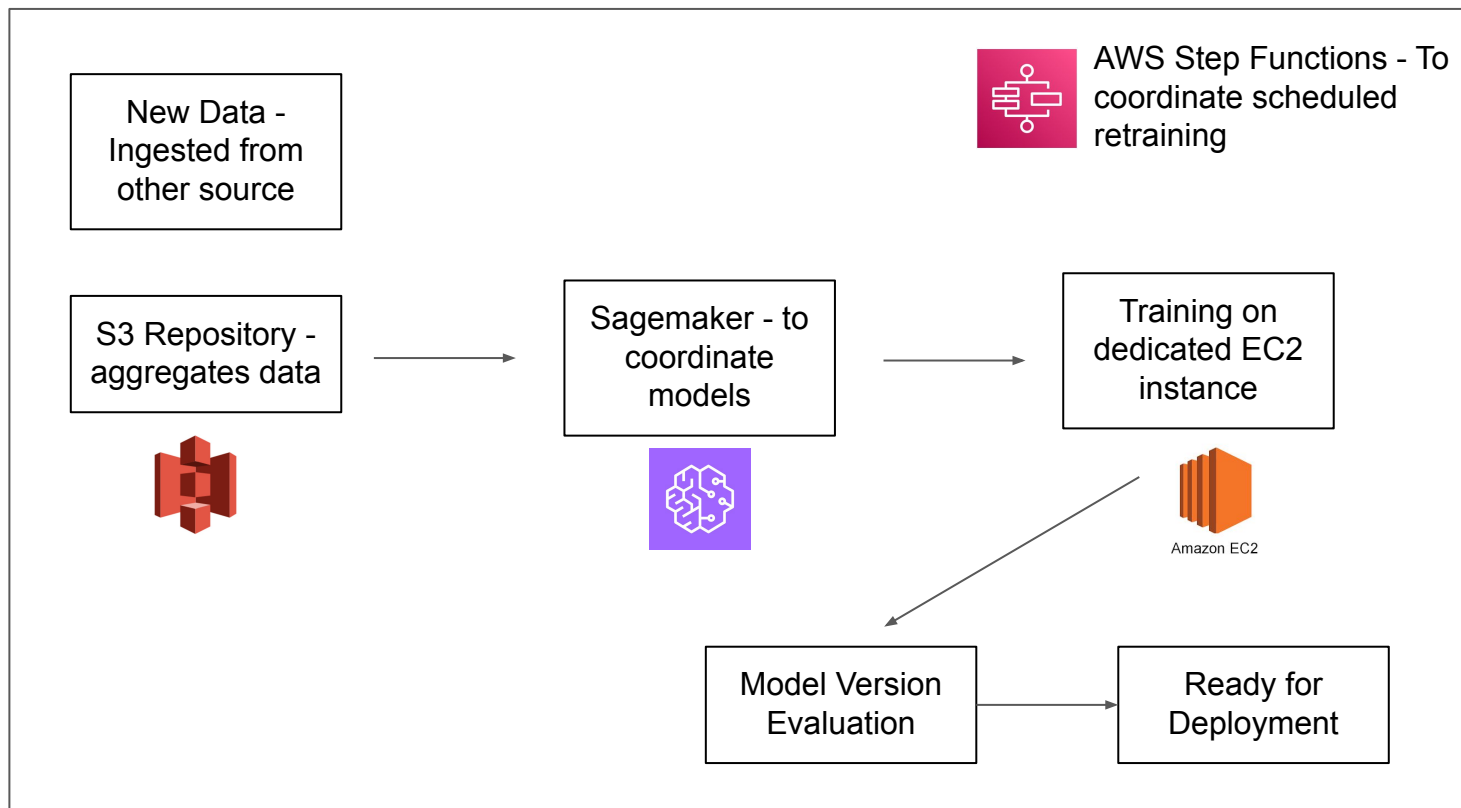
# Objective

Using Housing Data, we want to create an training and deployment system that can predict the price of a house given factors of: Bathrooms, Bedrooms, and Living Area. **In order to bring this system to scale, we need to utilize services on AWS.**

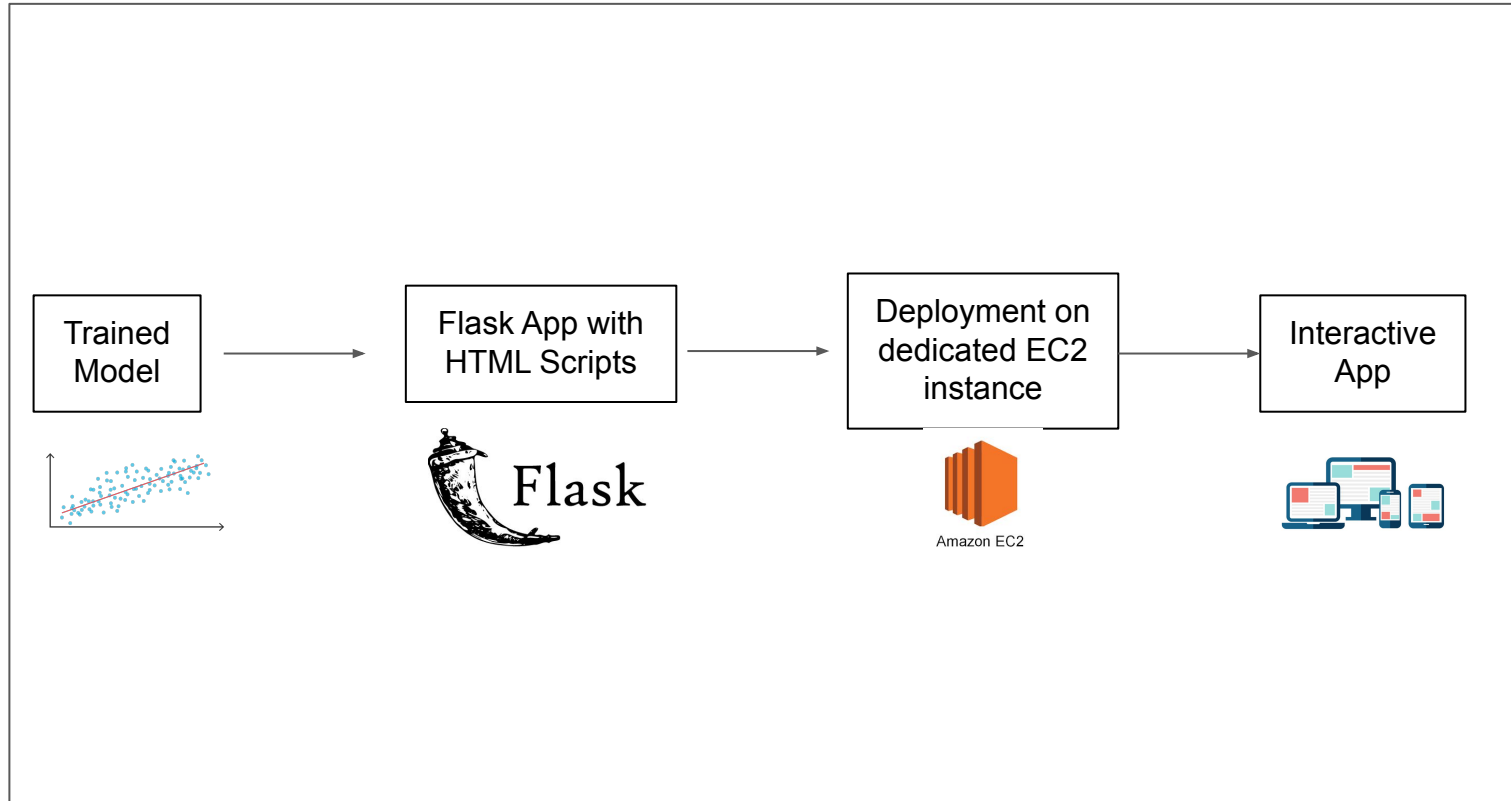
The two main portions

1. Continuous Training with AWS Sagemaker, S3, EC2
2. Deployment on EC2 with Flask API

# Continuous Training



# Deployment



# Flask App

The image displays two sequential browser screenshots of a web application. The top screenshot shows the main interface with the title "Find out the housing price". It features three input fields: "Bathrooms" with the value "2", "Bedrooms" with the value "2", and "Living Area" with the value "3000". Below these fields is a "Predict" button. The bottom screenshot shows the result page after clicking the button, displaying the text "The Price estimate of this house is: 381365.3736876057". Both screenshots show a browser window with the address bar indicating the URL "ec2-54-224-95-151.compute-1.amazonaws.com:8080".

**Find out the housing price**

Bathrooms

Bedrooms

Living Area

**Predict**

**The Price estimate of this house  
is: 381365.3736876057**

# Next Steps

- Expand to larger dataset
- Deploy deep learning networks
- Integrate training and deployment steps more continuously
- Redesign Flask API for more aesthetic appearance