Automated Training and Deployment of House Predictor Model in AWS

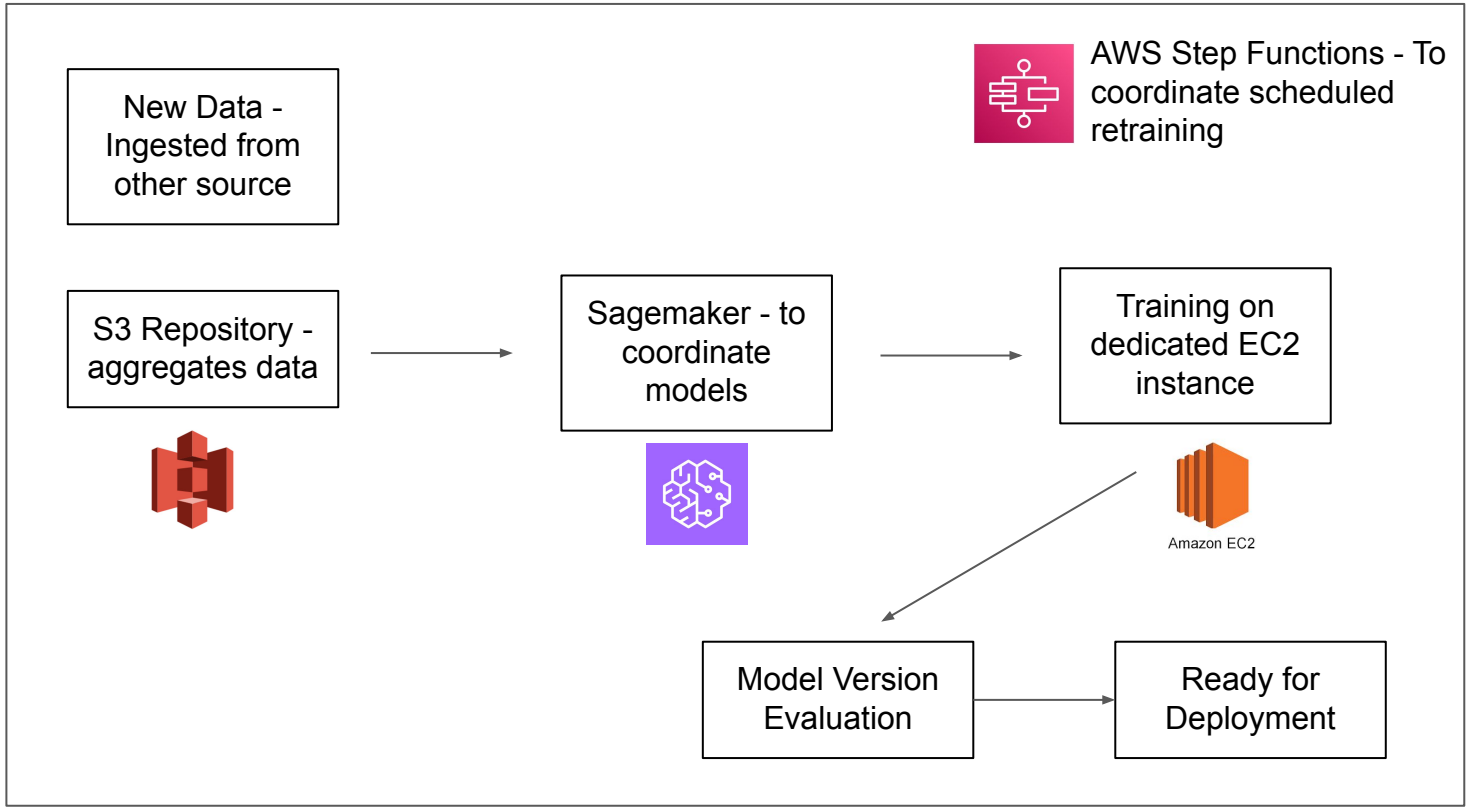
Objective

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.**

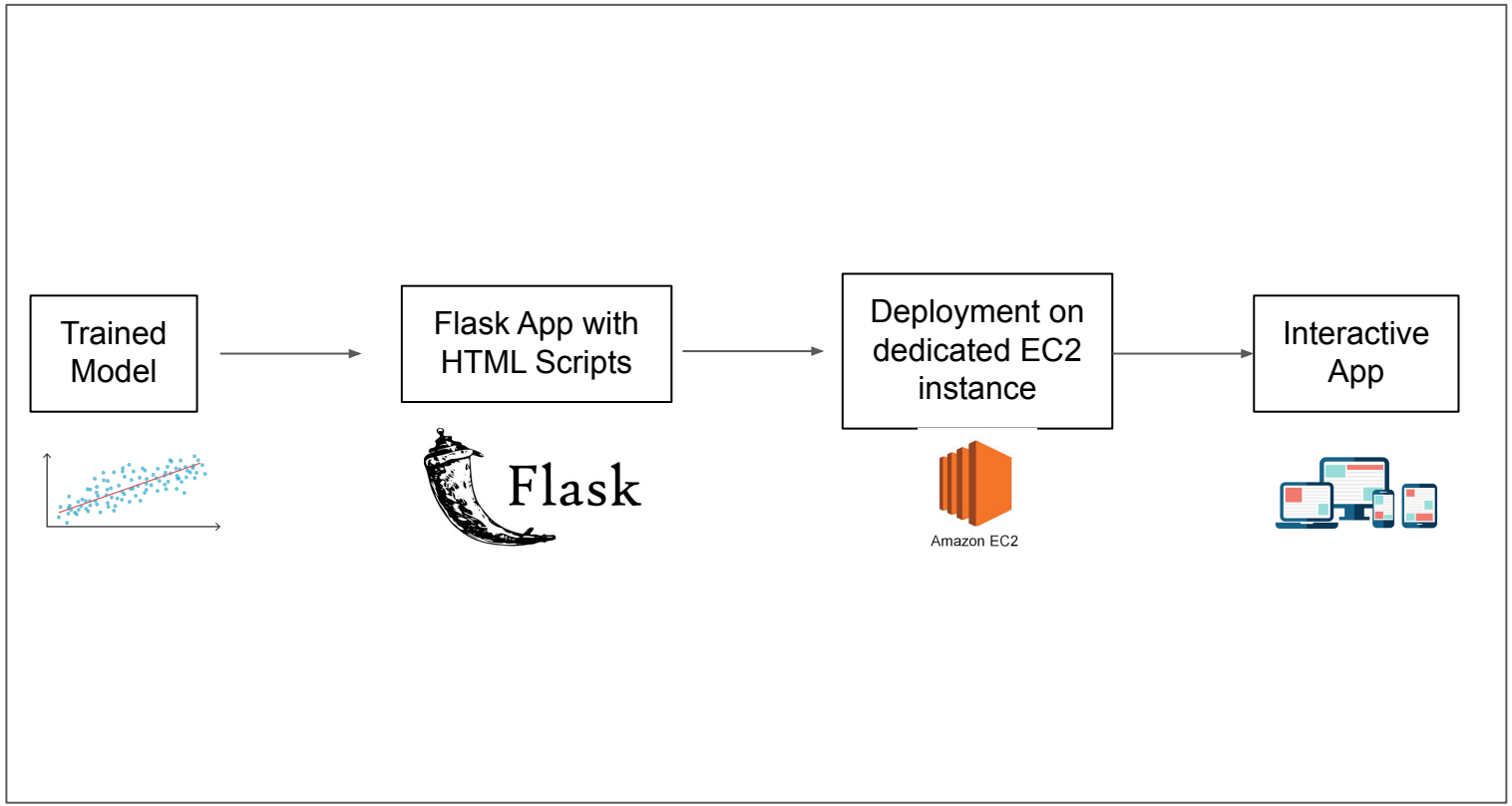
The two main portions

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

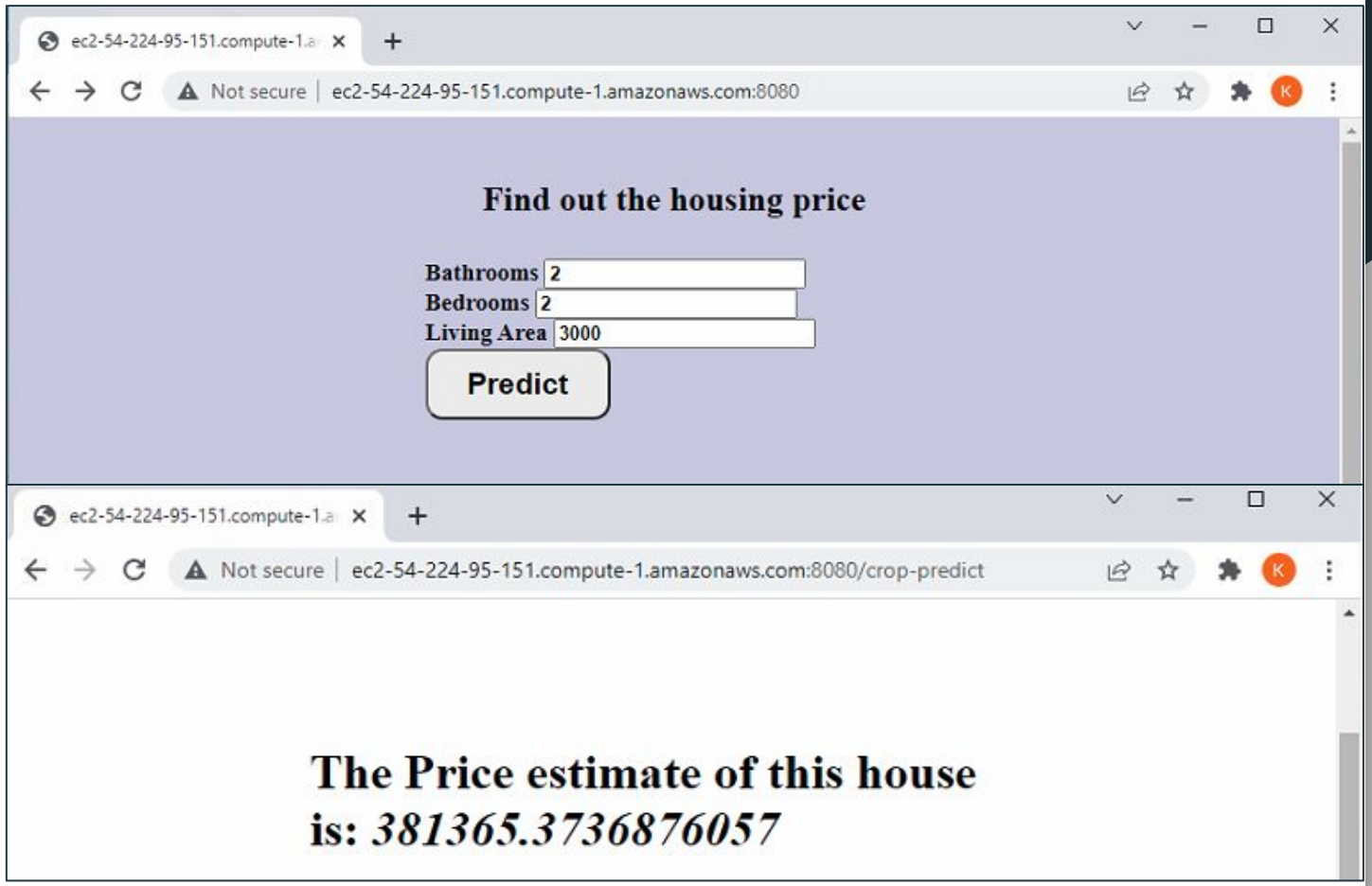
Continuous Training



Deployment


Trained Model
Flask App with HTML Scripts
Flask
Deployment on dedicated EC2 instance
Amazon EC2
Interactive App

Flask App


ec2-54-224-95-151.compute-1.a
Not secure | ec2-54-224-95-151.compute-1.amazonaws.com:8080
Find out the housing price
Bathrooms 2
Bedrooms 2
Living Area 3000
Predict
ec2-54-224-95-151.compute-1.a
Not secure | ec2-54-224-95-151.compute-1.amazonaws.com:8080/crop-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