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# ML Deployment (LOCAL)

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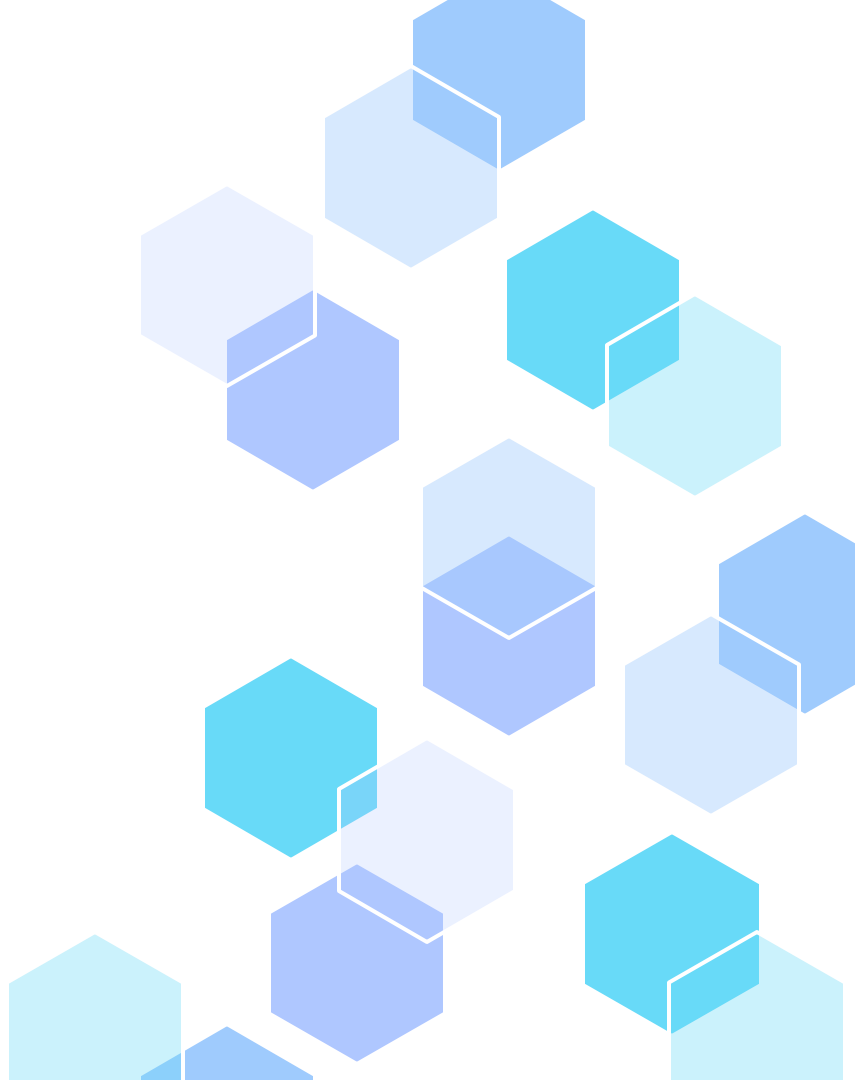


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# 01

# Introduction

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# Introduction

In machine learning, "modeling" refers to the process of creating a mathematical representation (called a "model") that can learn patterns from data and make predictions or classifications on new, unseen data by using algorithms to identify relationships within the dataset

Deploying a model refers to integration of trained model into a production environment where it can process real time data and provide output for practical applications and decision makings.

# Steps



# Background



## About

Company XYZ is a real estate firm specializing in property sales and investment advisory services. With an increasing demand for data-driven insights, the company aims to improve its offerings by leveraging machine learning to predict house prices more accurately.



## Predictors

**Area** (square feet): Larger homes typically cost more.

**Bedrooms:** More bedrooms add value but vary by location.

**Bathrooms:** Similar to bedrooms; more bathrooms generally increase value

**Stories:** Multi-story homes may affect price differently than single-story homes

**Parking:** Availability of parking can significantly impact property desirability and price.

# Files Needed



## **app.py**

This is the main Flask application file that serves as the backend for the house price prediction model.



## **Model.pkl**

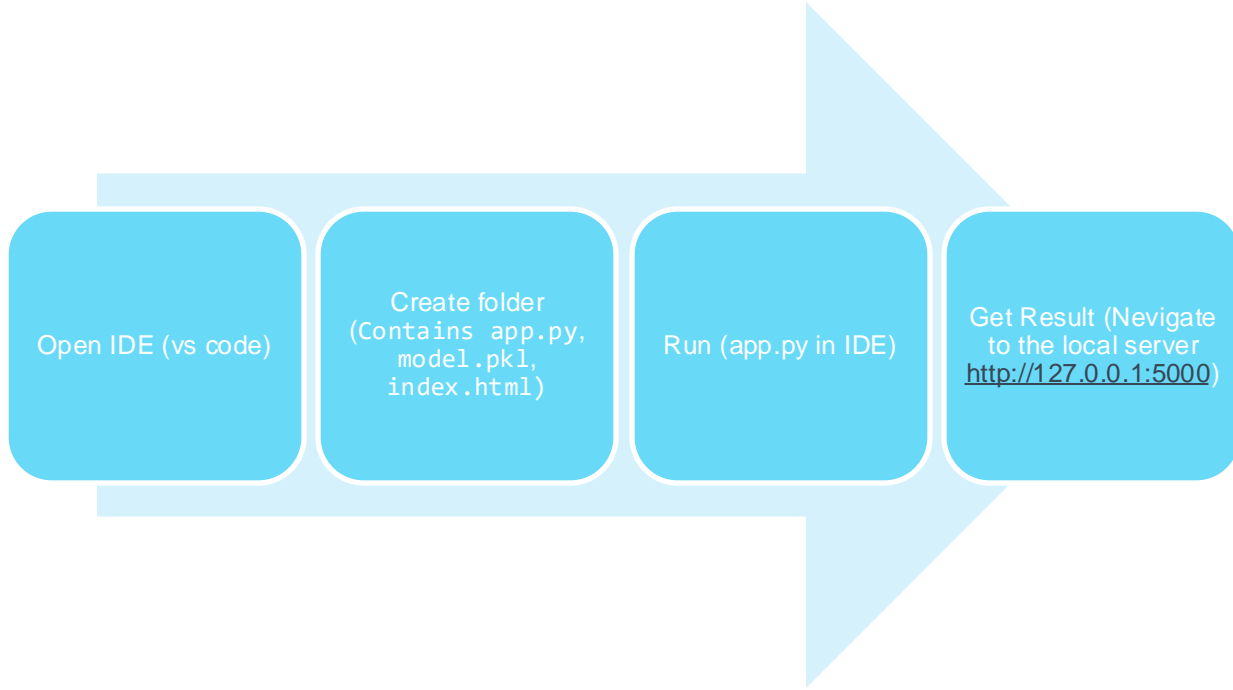
This file contains the pre-trained machine learning model serialized with Pickle.



## **index.html**

This is the frontend HTML template for the web app, providing the user interface.

# Deploying Model





# Example Output

## House Price Prediction

Area (in square feet)

Number of Bedrooms

Number of Bathrooms

Number of Stories

Parking Spaces

Predict Price

House price should be \$2527419.96

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# Thanks!

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