Title: Real Estate Price Prediction – Task 1

Subtitle: Using AI/ML to predict house prices

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## What We Are Doing

We want the computer to guess how much a house costs.

To do this, we will give the computer:

- The city the house is in
- How many bedrooms it has
- How big it is (square feet)
- How old it is (years)
- How good its extra features are (like lift, parking, garden)

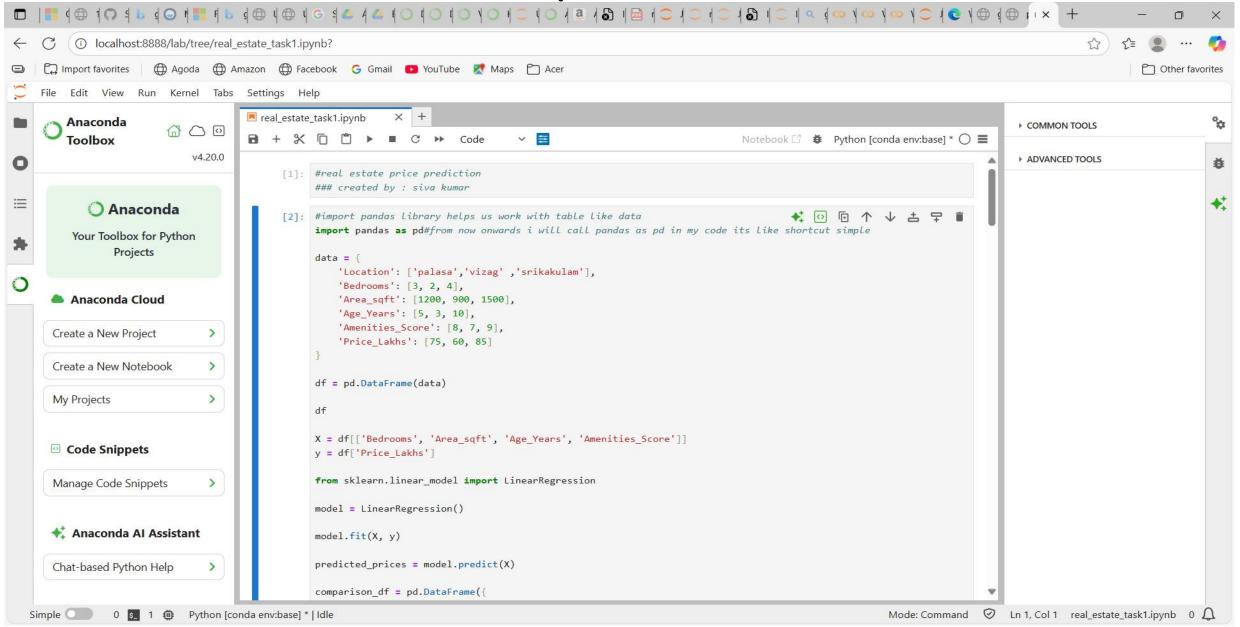
Then the computer will tell the price.

# our example data

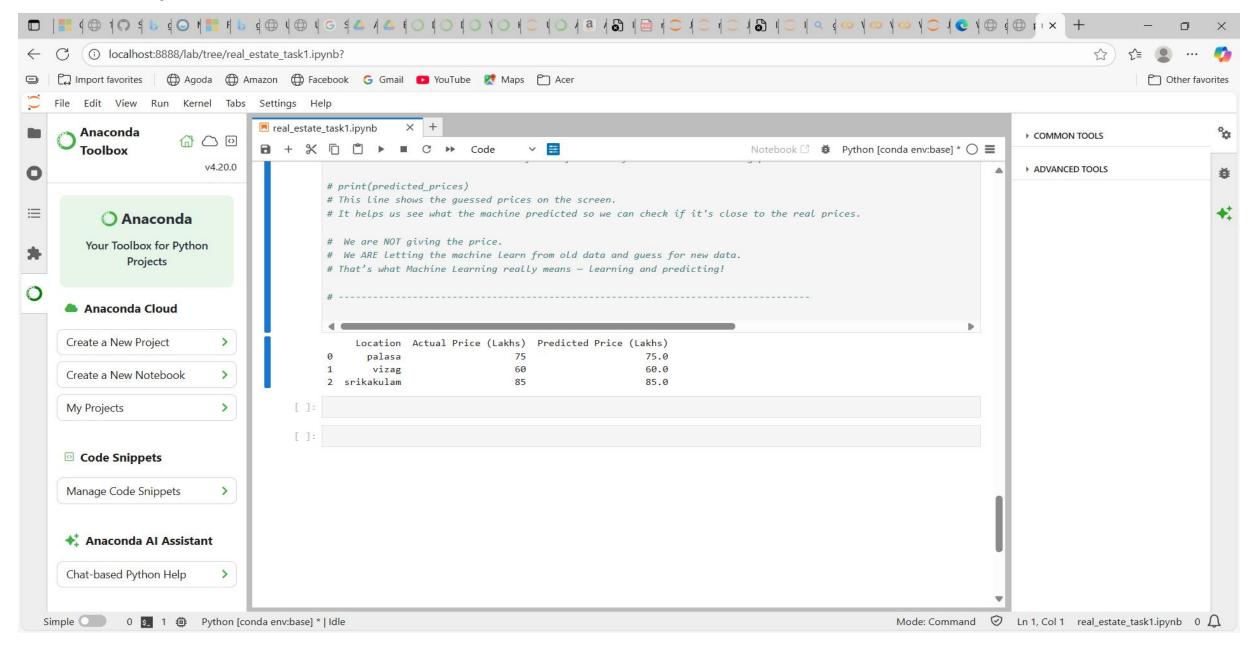
City	Bedrooms	Size	Age	features score	price
Palasa	3	1200	5	8	75
Vizag	2	900	3	7	60
Srikakulam	4	1500	10	9	85

we will use this table to teach the computer

### Screenshot the table output



#### output screenshot



#### How the computer learns

- We store the table in Python using pandas.
- We split the table into two parts:
- X → All the details (bedrooms, size, age, features)
- - y  $\rightarrow$  The price
- We use a tool called Linear Regression to find patterns.

```
df = pd.DataFrame(data)

df

X = df[['Bedrooms', 'Area_sqft', 'Age_Years', 'Amenities_Score']]
y = df['Price_Lakhs']

from sklearn.linear_model import LinearRegression

model = LinearRegression()

model.fit(X, y)
```

# Guessing the price

City	Actual price	Predicted price
palasa	75	75.0
vizag	60	60.0
srikakulam	85	85.0

#### What we learned

- Computers can learn from examples
- More examples = better predictions
- Can be used for many things, not just house prices