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Batch code: LISUM03
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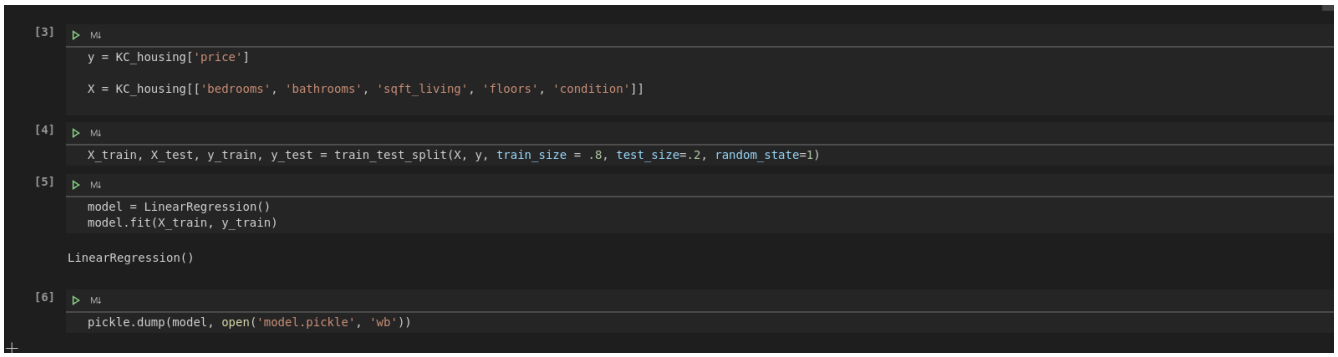
Model from Jupyter -



```
[3]
y = KC_housing['price']

X = KC_housing[['bedrooms', 'bathrooms', 'sqft_living', 'floors', 'condition']]

[4]
X_train, X_test, y_train, y_test = train_test_split(X, y, train_size = .8, test_size=.2, random_state=1)

[5]
model = LinearRegression()
model.fit(X_train, y_train)

LinearRegression()

[6]
pickle.dump(model, open('model.pickle', 'wb'))
```

Flask app -

```python
from flask import Flask, request, render_template
import numpy as np
import pickle

app = Flask(__name__)
model=pickle.load(open('Model/model.pickle', 'rb'))

@app.route('/')
def home():
    return render_template('index.html')

@app.route('/predict', methods=['POST'])
def predict():

    float_features = [float(x) for x in request.form.values()]
    final_features = [np.array(float_features)]
    pred = model.predict(final_features)

    output = round(pred[0], 2)

    return render_template('index.html', prediction_text ='Housing price prediction: ${}'.format(output))

if __name__ == "__main__":
    app.run(port=5000, debug=True)
```

HTML -

```html
<!DOCTYPE html>
<html>
  <head>

    <link rel="stylesheet" href="{{ url_for('static', filename='css/main.css') }}">
  </head>
    <body>
        <div class="container">
            <h1>Housing Price Predictor for King County, Washington</h1>
            <p>This model uses information from a housing database from 2014-2015 to predict the price of a house in King Country. If only houses were still
              at these prices!
            </p>
            <div class='form-group'>
              <form action="{{ url_for('predict') }}"method="post">
                  <input type="text" class='form-control' name="bedrooms" placeholder="Number of bedrooms" required="required" /><br>
                  <input type="text" class='form-control' name="bathrooms" placeholder="Number of bathrooms" required="required" /><br>
                  <input type="text" class='form-control' name="sqft_living" placeholder="Living area square feet" required="required" /><br>
                  <input type="text" class='form-control' name="floors" placeholder="Number of floors" required="required" /><br>
                  <input type="text" class='form-control' name="condition" placeholder="Condition of house (1 - 5)" required="required" /><br>


                  <button type="submit" class='btn btn-primary btn-block btn-Large'>Predict</button>
              </form>
            </div>
            <br>
            <br>
            <h1>{{ prediction_text }}</h1>
        </div>
    </body>
</html>
```

Flask Page -