



Model Development Phase Template

| Date | 07 July 2024 | |
|---------------|---|--|
| Team ID | team-740082 | |
| Project Title | House Rent Price Prediction Using Machine Learning | |
| Maximum Marks | 4 Marks | |

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

Linear Regression Model



Random Forest Model

XGBoost Regression Model





Decision Tree Model

```
    Decision Tree Model:

    from sklearn.tree import DecisionTreeRegressor
    dt = DecisionTreeRegressor(random_state = 0)
    dt.fit(x,y)

    DecisionTreeRegressor
    DecisionTreeRegressor(random_state=0)

[ ] y_pred = dt.predict(x_test)

[ ] accuracy = dt.score(x_test,y_test)
    print(accuracy)

    0.9968193356037073
```

Model Validation and Evaluation Report:

| Model | Regression Report | Accuracy | Regression Matrix |
|-------------------------------|---|----------|--|
| Linear Regression | ● A massive, a test. In excitable in the evolutions and it is seed to supplie the part of the product of the part | 81.3% | |
| Random Forest Regressor | A house a loss in excilation in the necessary and in a seeke house, so a heary error, a part of gradical tests in closed on the second of | 98.6% | or model_comperint_train_s_tra |
| XGBoost Regression | [] a found of special reposition in the assistance and it is already confidence of a hardy entry, prefer ("Noticities indicated into gradiest movine supresses mainly prefer ("Not septical terms," size already entry that the special terms of the special terms, and advantages of the special terms of the | 91.6% | O for soil general, resin, a test, y train, y test; **A housing "little" it a fitted contest housing beganson most processes and the second processes and processes are soil processes and the contestion and general boundary forces, and soils. print("see Societies ("croir," seen Societies Boundary feet, y peed) print("see Societies ("croir," seen Societies Boundary feet, y peed)) print("see Societies ("croir," seen Societies Boundary feet, y peed)) print("see Societies ("croir," seen Societies Boundary feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies ("croir," see Societies forces; feet, y peed)) print("see Societies feet, y peed) print("see Societies feet, y peed) print("see Societies feet, y peed)) print("see Societies feet, y peed) print("see Societies feet, y peed)) print("see Societies feet, y peed) print("see Societies feet, y peed)) print("see Societies feet, y peed) print("see Societies feet, y peed)) print("see Societies feet, y peed)) print("see Societies feet, y peed)) print("see Societies feet, y peed) print("see Societies feet, y peed)) print("see Societies feet, y peed) print("see Societies feet, y peed)) print("see Societies feet, y peed)) print("see So |





Decision Tree

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