**Housing Prices Prediction – Group 3**

1. Introduction

Overview of the project.

Objectives: Predicting house sale prices using machine learning models.

Dataset description (e.g., number of features, rows, and target variable).

2. Data Preparation

Data cleaning steps (e.g., handling missing values, outliers).

Feature engineering (e.g., scaling, encoding categorical variables).

Splitting data into training and testing sets.

3. Exploratory Data Analysis (EDA)

Key insights from the dataset.

Visualizations (e.g., scatter plots, histograms, correlation heatmaps).

4. Model Selection

Models used: Random Forest, Support Vector Machine (SVM), Logistic Regression.

Justification for choosing these models.

5. Model Training

Training process for each model.

Hyperparameter tuning (e.g., Grid Search, Randomized Search).

6. Model Evaluation

Metrics used: Mean Squared Error (MSE), Root Mean Squared Error (RMSE).

Comparison of model performance.

7. Results

Final predictions and their alignment with actual values.

Visualizations of predictions (e.g., Sale Price vs Lot Area).

8. Discussion

Strengths and weaknesses of each model.

Challenges faced during the project.

9. Conclusion

Summary of findings.

Recommendations for future work.

10. References

Cite any datasets, libraries, or research papers used.