**Week 2-Project Report**

**Team name:** Project-KC

**Members:**

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**Week’s Objective**: To conduct a Correlation Analysis and build a second model using different regression techniques.

**Challenges Faced**: Difficulty in Correlation Analysis due to high number of variables, Model selection due to multicollinearity between independent variables.

**Results:** Developed Correlation Analysis with respect to independent variables and the correlation between independent variables and SalePrice. Selected Ridge regression model as it can handle multicollinearity between independent variables. Tested with different values of alpha for analysis and finally decided to consider an alpha of 0 and considered the variables that are highly correlated with the SalePrice, which achieved a better prediction with score of 0.18961 (best score for this week analysis)

**Next Steps:** Further data improvements and analysis using a different model.

**Feedback/Queries**: Need help handling the correlation between independent variables, as the high dependency between independent variables is affecting the model performance. Unable to analyze the variables that are weighing down the model due to this.