

# FinalReport

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**Introduction**

**Variable Selection**

**Stepwise Regression Models**

**Correlation Matrix**

**Variance Inflation Factors**

**Added Variable Plots**

**Diagnostics**

**Leverage Points**

**Cook's Distances**

**Outliers**

**Model Fitting**

**Test for Interaction**

**Test for Higher Order**

**Model Validation**

**Final Model**

**Discussion**

**Conclusion**