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Practical Machine Learning

Exercise 1: Warmup

In this exercise, we utilized the ElasticNet method for regression of the data. Subsequently, we performed two classification methods, namely Logistic Regression and K-Nearest Neighbor (KNN), on the data and obtained the respective accuracy values.

I reviewed the codes, datasets, and results from “*Soudabe*” and “*Supersonic98*” GitHub repositories. The links for these repositories are mentioned at the end of this document.

The following figures depict the results:

ElasticNet RMSE for TRAIN: 0.81

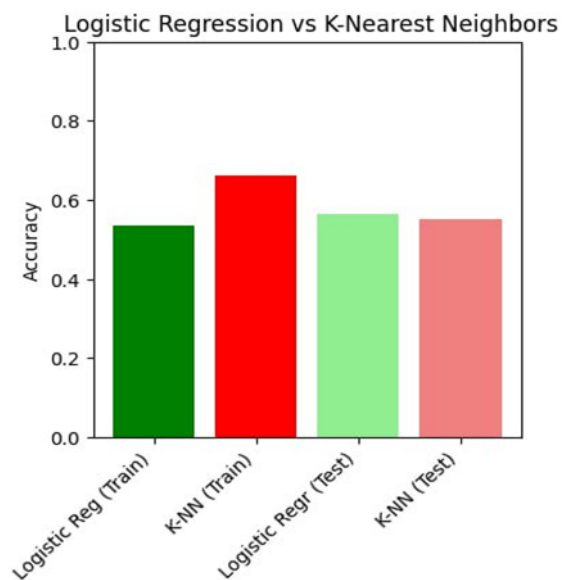
ElasticNet RMSE for TEST: 0.77

Logistic Regression Accuracy for TRAIN: 0.60

Logistic Regression Accuracy for TEST: 0.60

K-Nearest Neighbors Accuracy for TRAIN: 0.67

K-Nearest Neighbors Accuracy for TEST: 0.61



The links for the Github repositories:

1-<https://github.com/COSC5557/warmup-supersonic98>

2-<https://github.com/COSC5557/warmup-soudabe>