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HW2: Logistic Regression Report

GitHub Link –

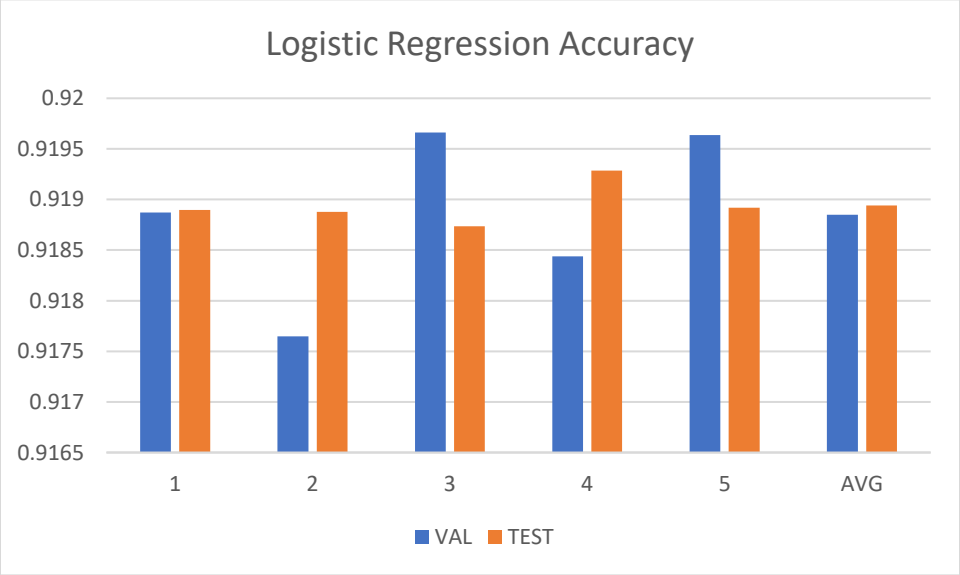
https://github.com/devonltyson/ML_Hw2

Tools –

To implement Logistic Regression, I used SKLearn in order to find the accuracy of val and test for each fold. I used Excel to organize and graph the data in order to obtain a visual of the information.

Metrics –

FOLD	VAL	TEST
1	0.9188706674488	0.918897412878478
2	0.9176464587212	0.918877009711907
3	0.9196613022520	0.918734187545907
4	0.9184370935244	0.919285073043336
5	0.9196357979035	0.918917816045050
AVG	0.9188502639700	0.918942299844935



Conclusion –

Accuracy for all folds are between 91% and 92%, with fold 5 being the most accurate and fold 2 being the least accurate. The results of logistic regression are fairly accurate for this data set. We can say that on average, we know with 91.8% accuracy what class any given case belongs to.