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CIS 492 Machine Learning | Fall 2022

Professor Qin Lin

Due: 10/23/2022

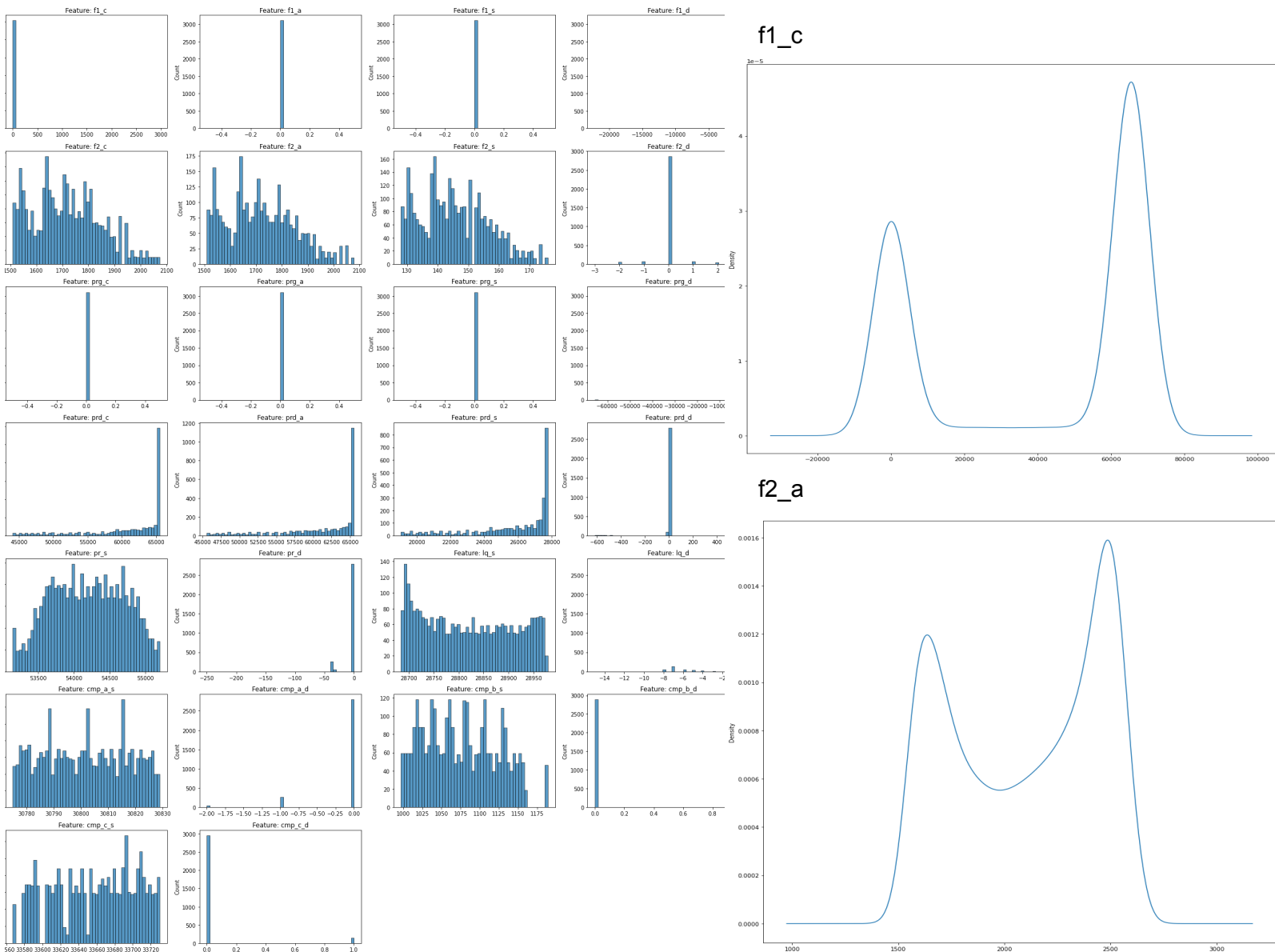
## Midterm Project Report

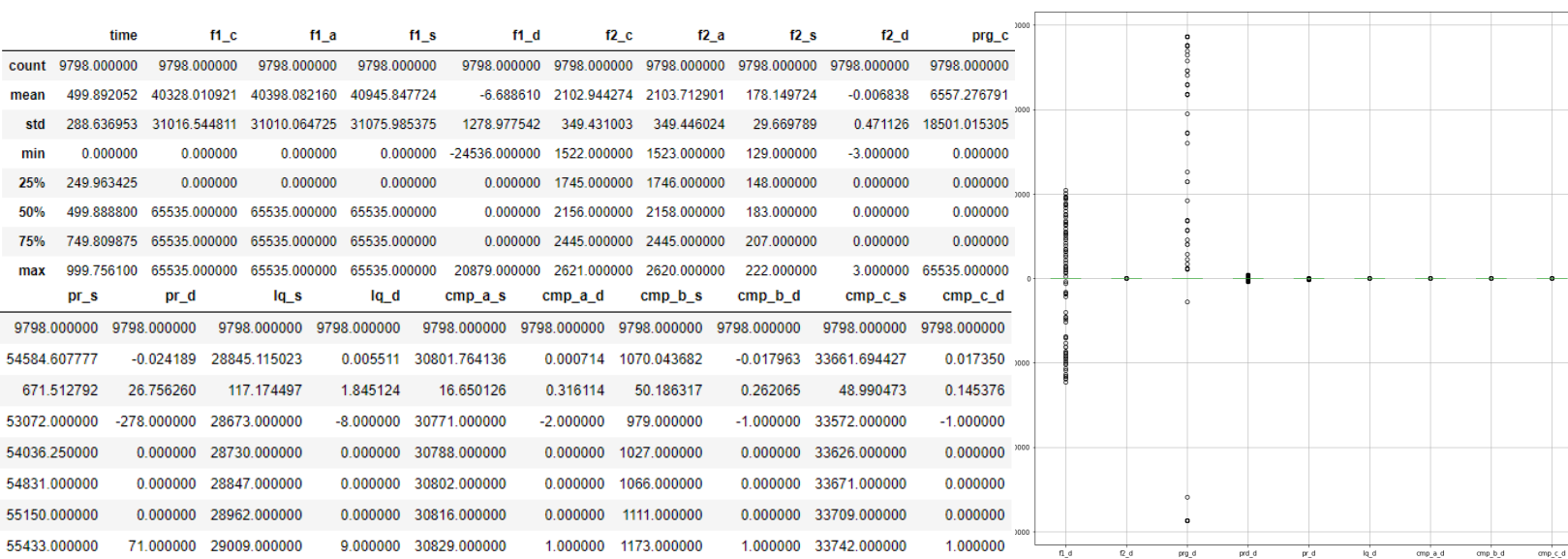
### Task 0:

Shubham Dave: **50%**

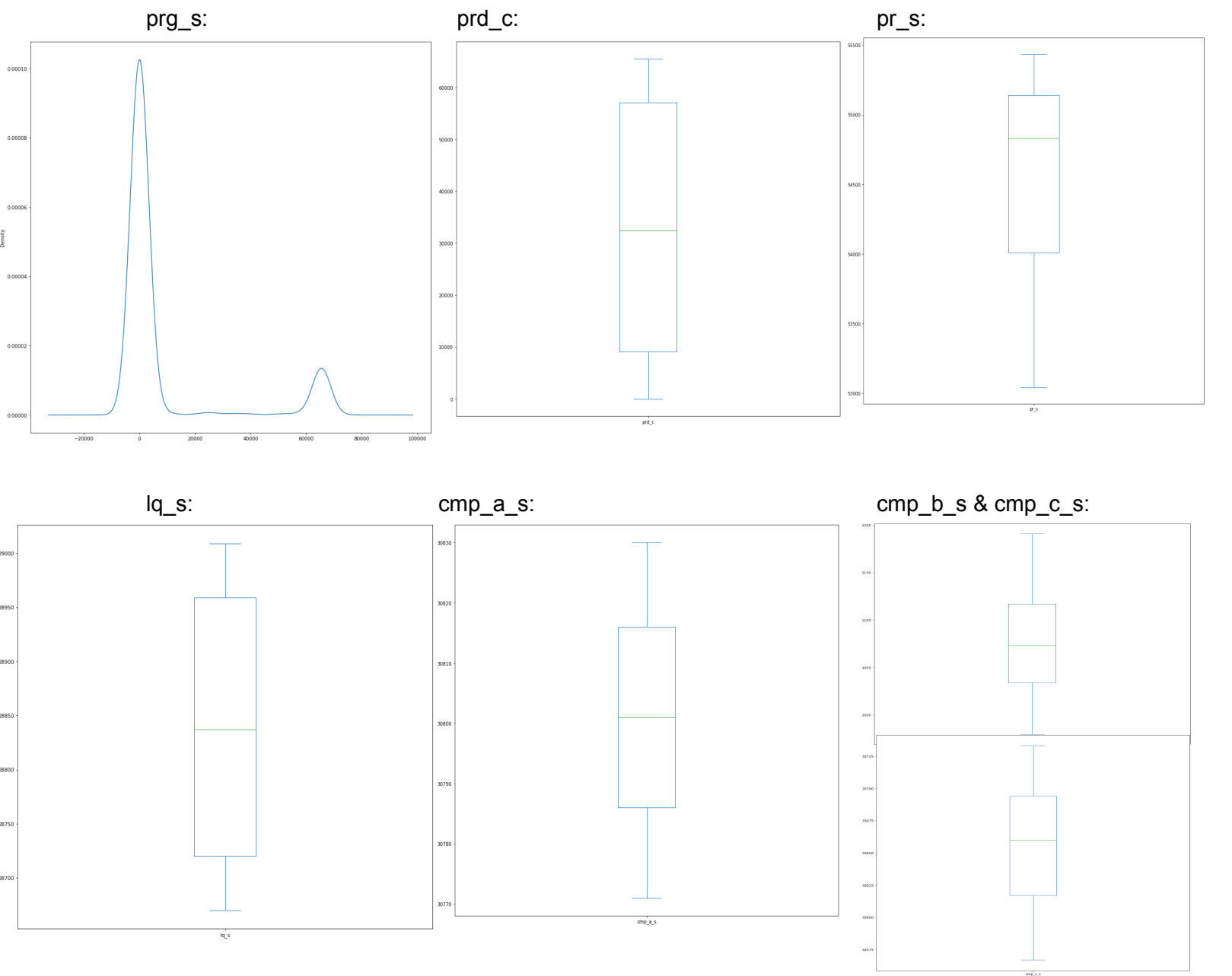
Nazmi Bunjaku: **50%**

### Task 1:





From our statistical analysis we noticed that the **prg\_** features influence whether the dataset is normal or abnormal. The abnormal dataset has large outliers in the 19,000-20,000 range whereas the normal dataset has no such outliers



**Task 2:**

TP = 45

FP = 0

TN = 13

FN = 0

Precision Score = 1.0

Recall Score = 1.0

F1 Score = 1.0

**Task 3:**

TP = 39

FP = 0

TN = 19

FN = 0

Precision Score = 1.0

Recall Score = 1.0

F1 Score = 1.0

Note: After extensive tuning & analysis, we found 6000 to be the best & most optimal Epsilon for our model