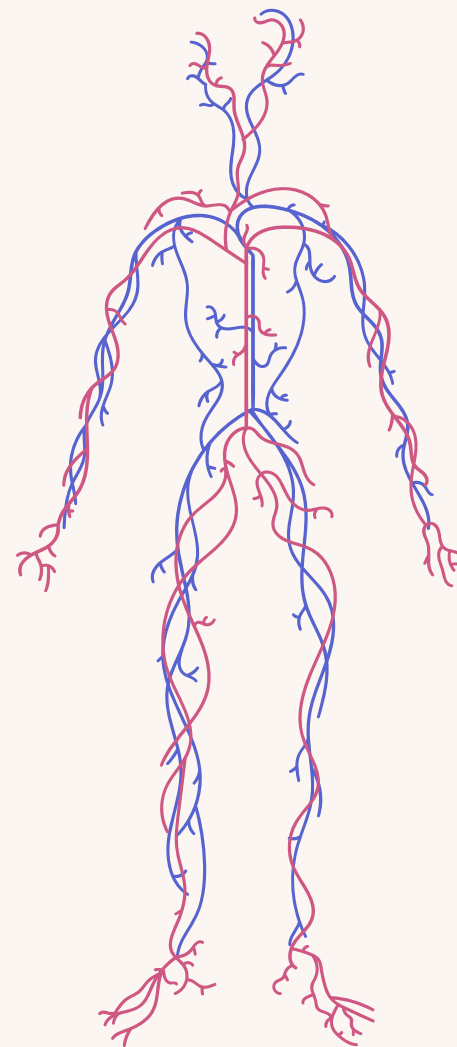


Identifying Predictors of Hospital Mortality in Individuals with Cardiovascular Issues and Acute Renal Impairment

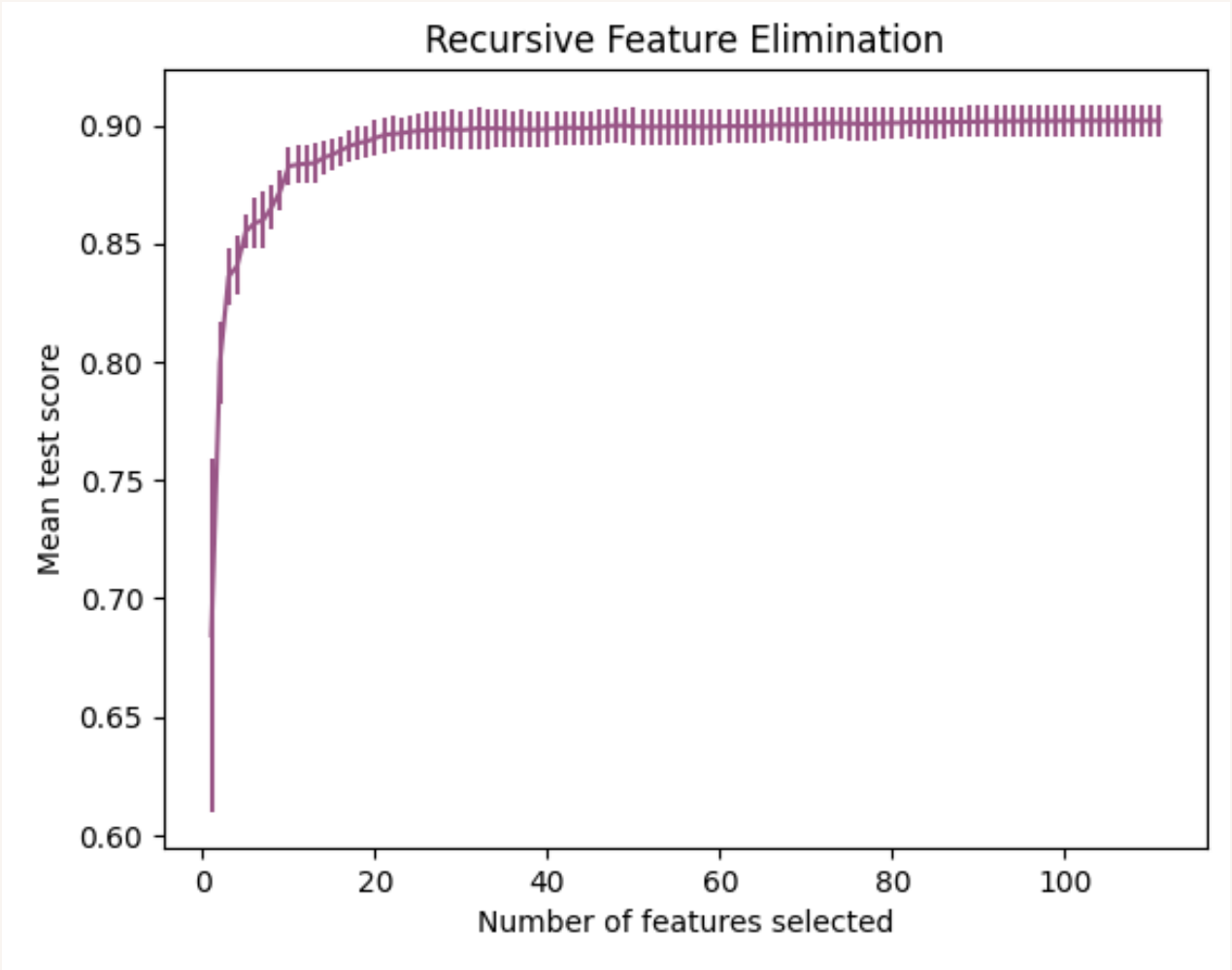


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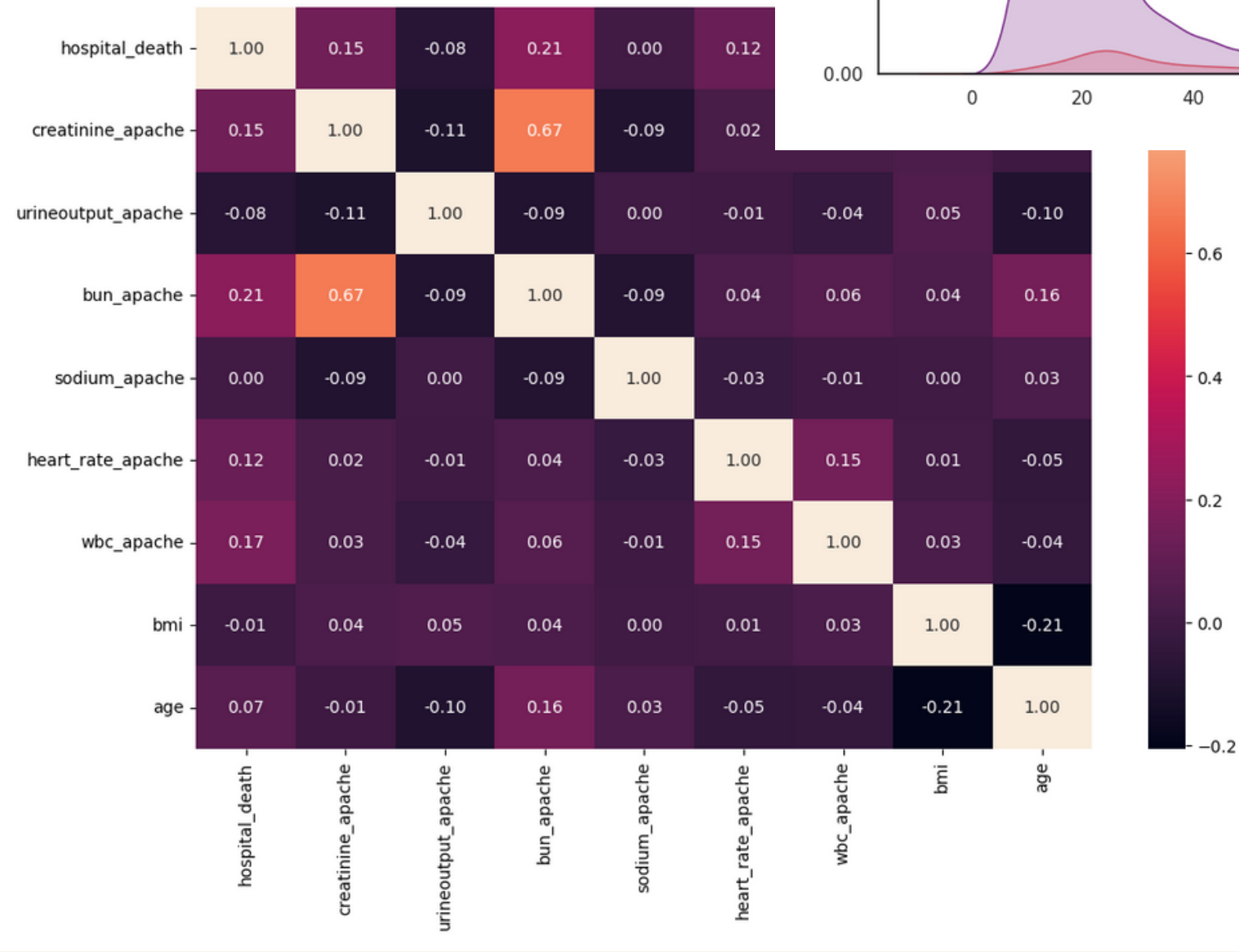
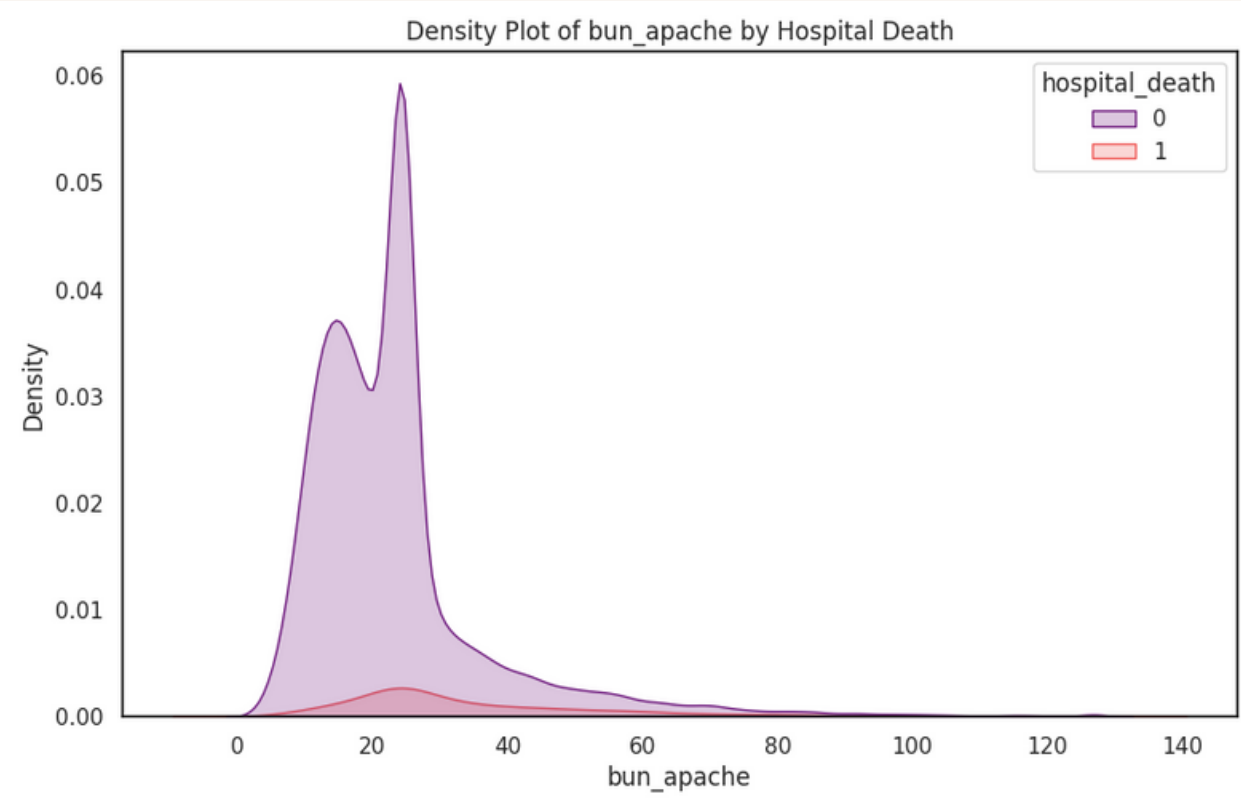
Jinyu Luo, Yan Yi Li, Khalil Kain



EDA



Recursive CV Feature Selection



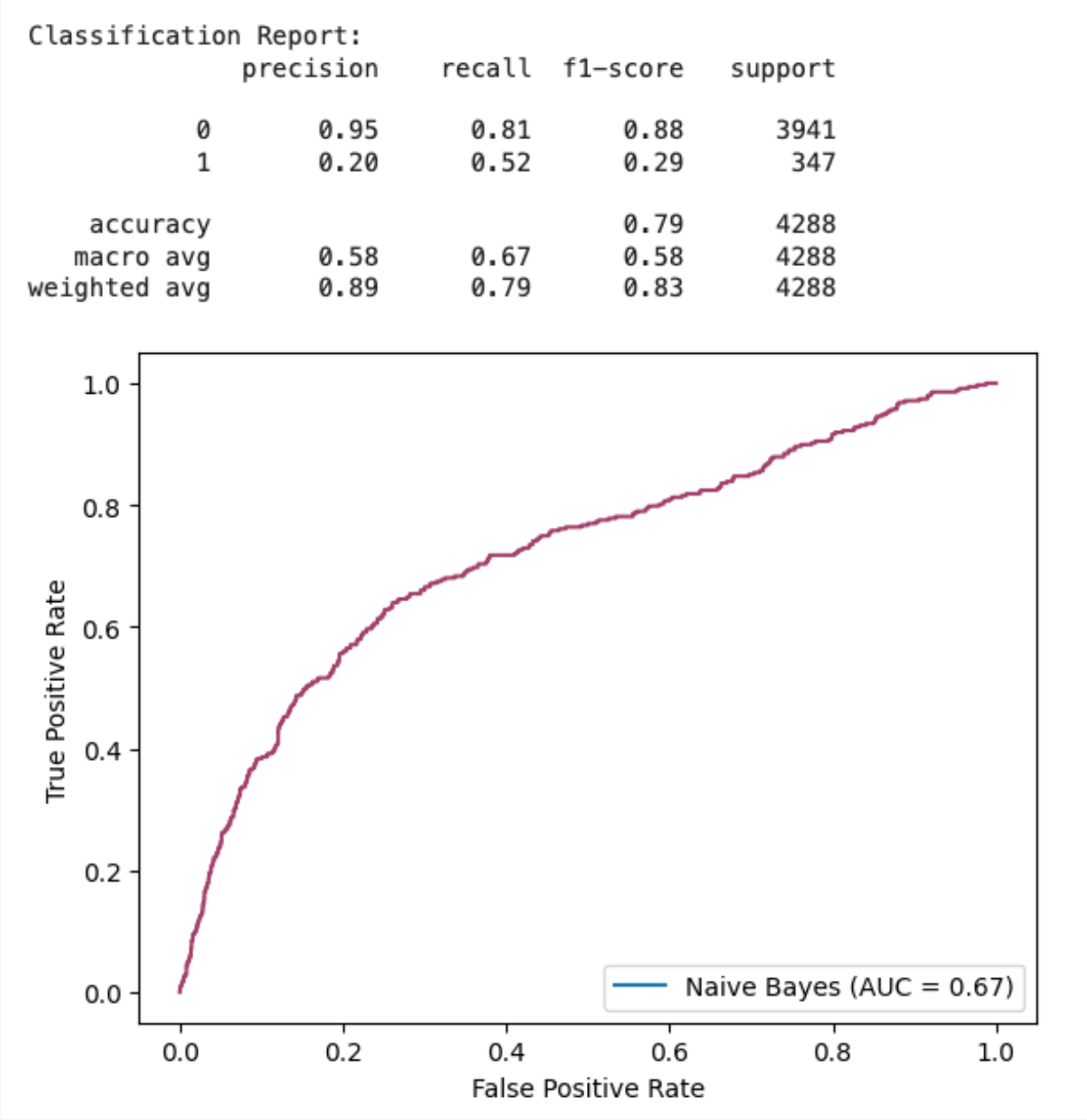
Correlation Heat Map

bun_apache

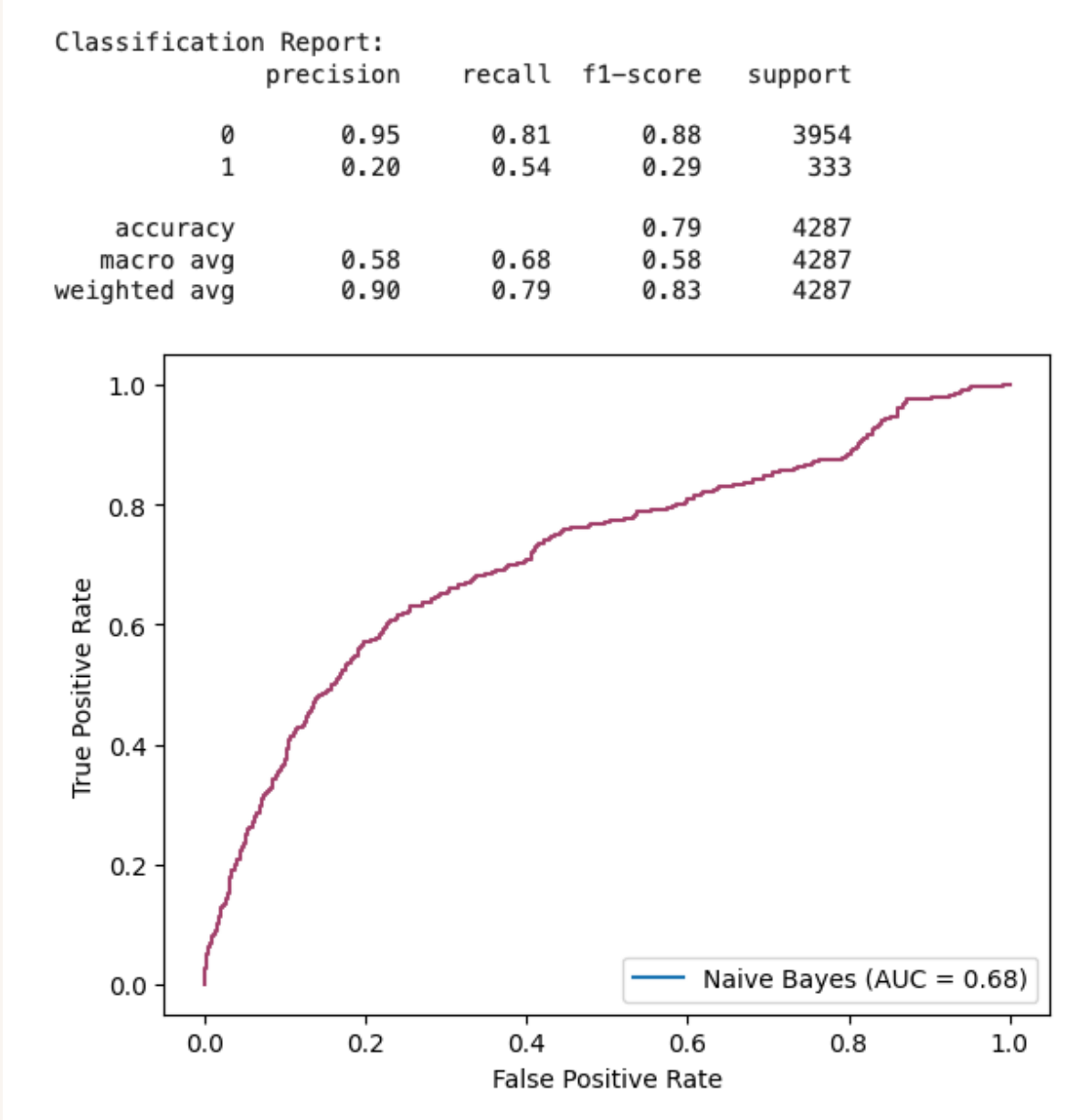
The blood urea nitrogen concentration

Naive Bayes

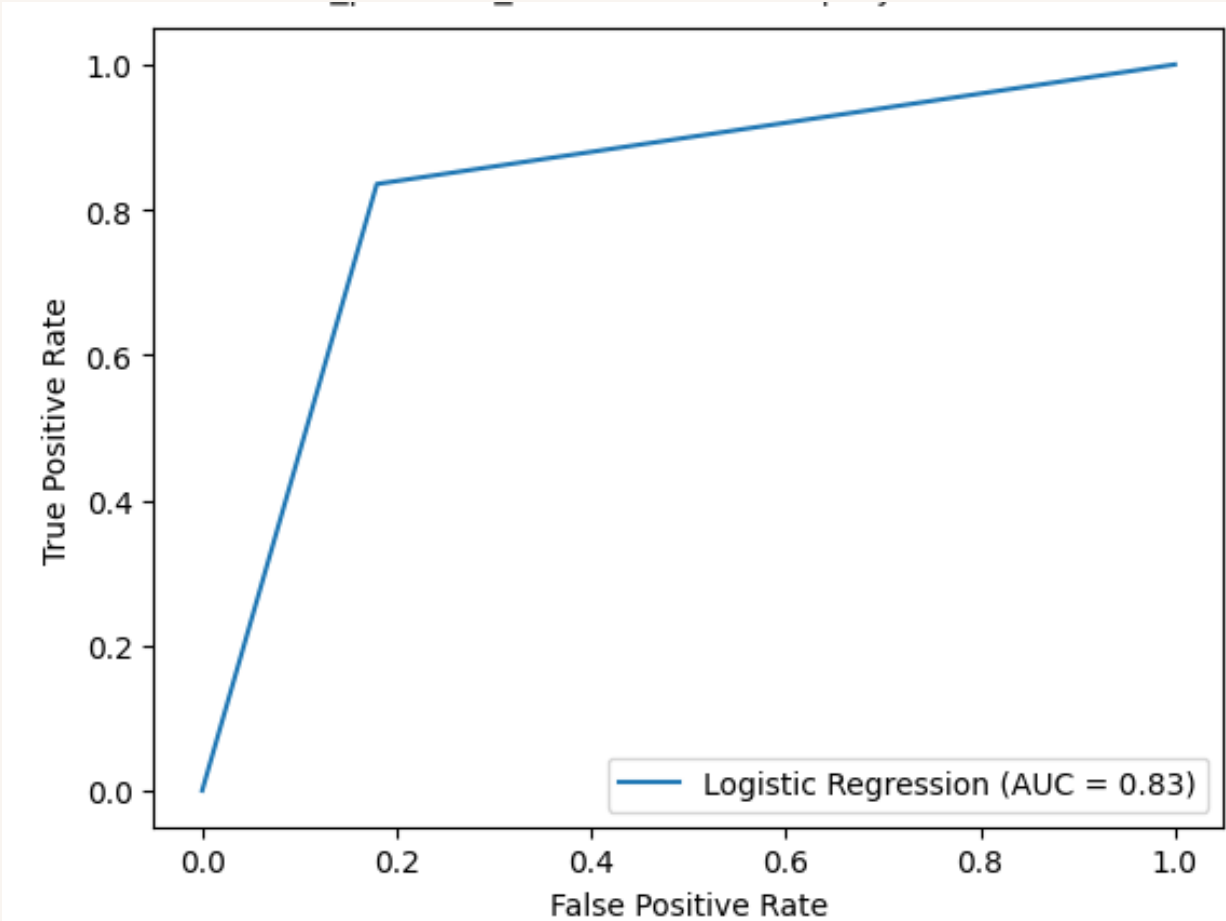
Validation Data Result



Validation Data Result



Logistic Regression & Neural Net



Logistic Regression

recall for the death group: 0.30

0.19638516008853912				
Validation Classification Report:				
	precision	recall	f1-score	support
Class 0	0.95	0.98	0.96	7907
Class 1	0.57	0.38	0.46	668
accuracy			0.93	8575
macro avg	0.76	0.68	0.71	8575
weighted avg	0.92	0.93	0.92	8575
0.15548263490200043				
Training Classification Report:				
	precision	recall	f1-score	support
Class 0	0.95	0.99	0.97	18408
Class 1	0.73	0.46	0.56	1599
accuracy			0.94	20007
macro avg	0.84	0.72	0.77	20007
weighted avg	0.94	0.94	0.94	20007

Neural Net