Final Metrics

Predicting Sepsis in ICU Patients

#### By Aisling Casey – 05/19/2021

No model proved useful in classifying sepsis patients. Here I present the parameters & testing data results for one of the models, a logistic regression model that attempted to classify whether a patient had sepsis or not.

### Model Parameters

Logistic Regression Model

'C': 1,

'class\_weight': None,

'dual': False,

'fit\_intercept': True,

'intercept\_scaling': 1,

'l1\_ratio': None,

'max\_iter': 1000,

'multi\_class': 'auto',

'n\_jobs': None,

'penalty': 'l2',

'random\_state': None,

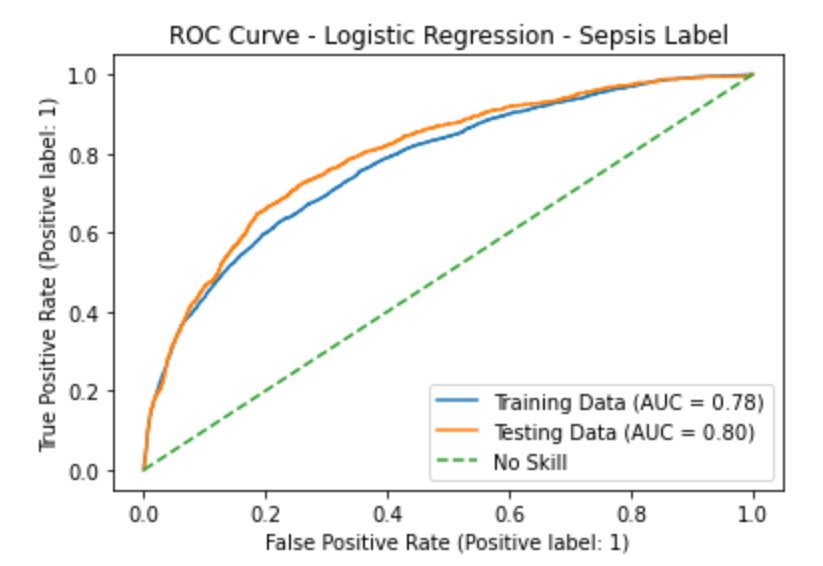
'solver': 'lbfgs',

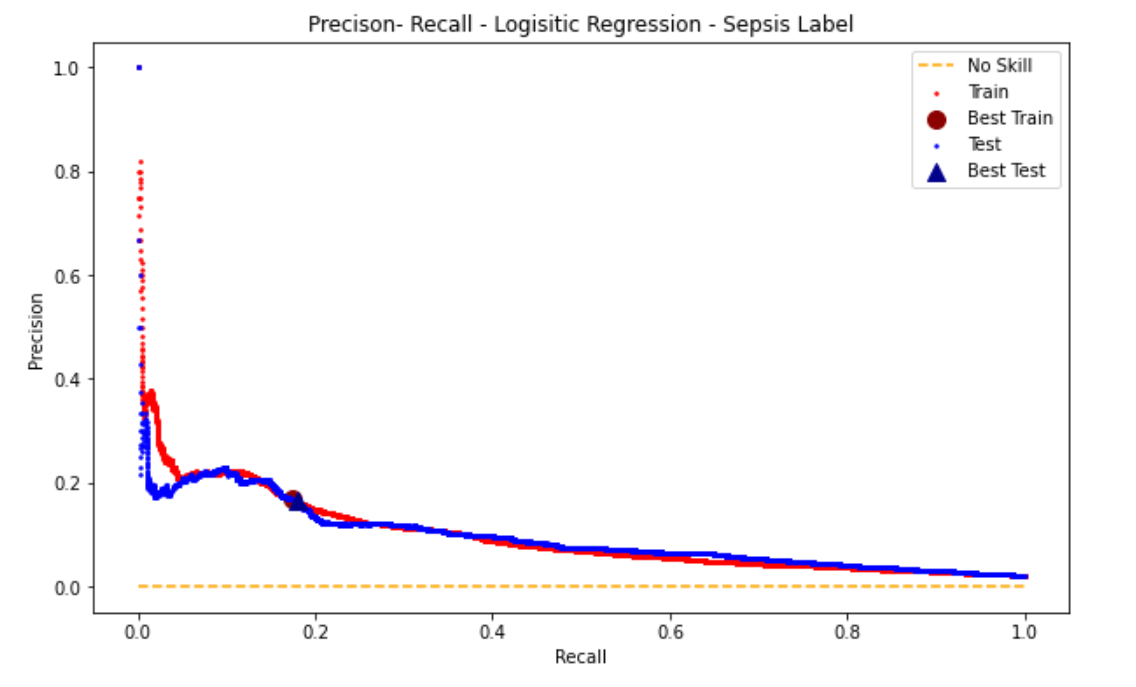
'tol': 0.0001,

'verbose': 0,

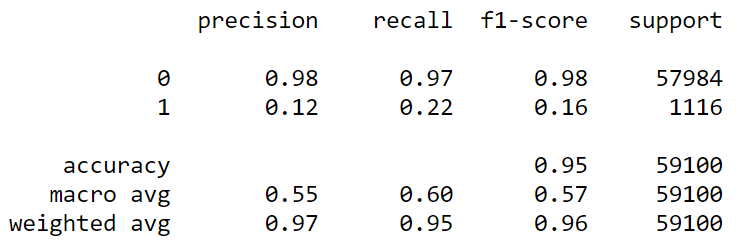
'warm\_start': False

### Results





#### Classification Report – Testing Data



Note: The optimal probability threshold according to F1 score has been set,

which in this case is 0.101.

|  |  |  |
| --- | --- | --- |
|  | Actual 0 | Actual 1 |
| Predicted 0 | 56151 | 1833 |
| Predicted 1 | 865 | 251 |

#### Confusion Matrix – Testing Data

Note: The optimal probability threshold according to F1 score has been set,

which in this case is 0.101.