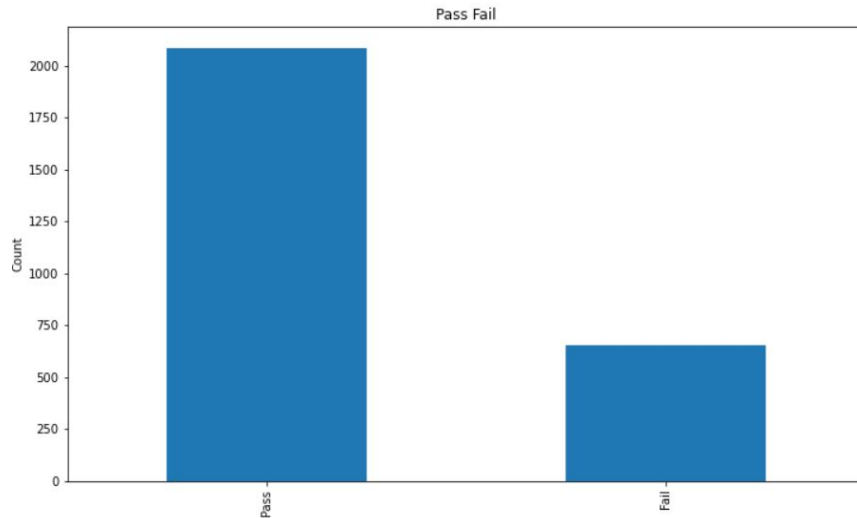

Modeling Course Outcomes

— Michael Pajewski —

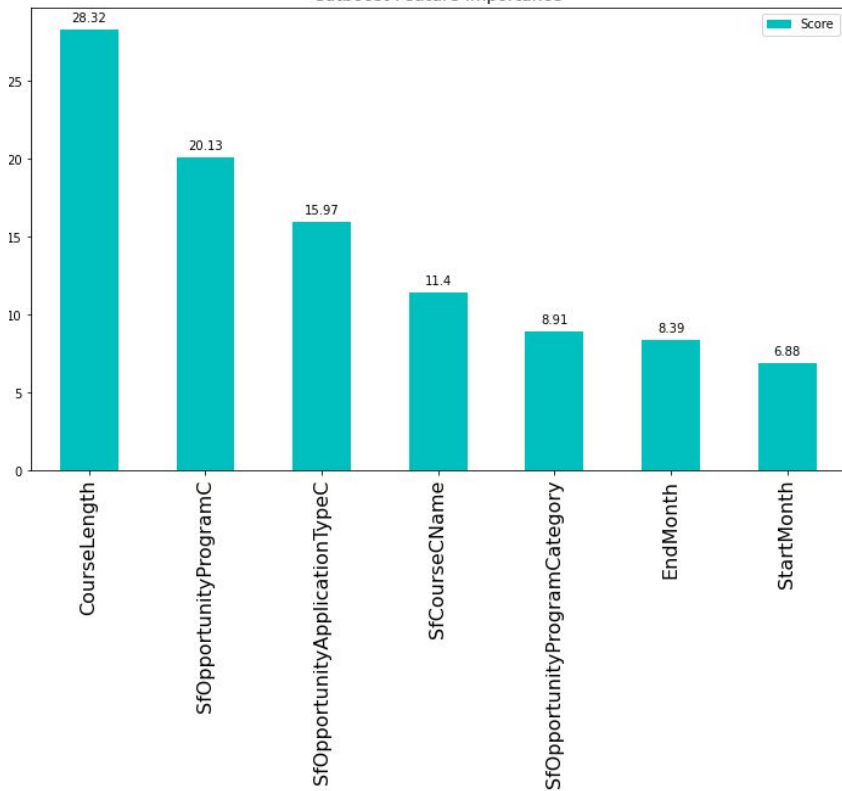
EDA, Data Cleaning, and Feature Engineering



	SfOpportunityApplicationTypeC	SfOpportunityProgramCategory	SfOpportunityProgramC	SfCourseCName	PassFail	CourseLength	StartMonth	EndMonth
0	Western Governors University	University	B.A. in Interdisciplinary Studies (K-8)	Term 1	1.0	182.0	6.0	11.0
1	Western Governors University	University	B.A. in Interdisciplinary Studies (K-8)	Term 2	1.0	181.0	12.0	5.0
2	Western Governors University	University	B.A. in Interdisciplinary Studies (K-8)	Term 3	1.0	182.0	6.0	11.0

Catboost Model

Catboost Feature Importance



Accuracy: 79.6%
Precision: 82.4%
Recall: 93.4%

Further Exploration of Important Features with SHAP

