## Machine Learning Models Result (CarPassenger category)

Models	Methods	Accuracy	Accuracy Std Dev	Precision	Precision Std Dev	Recall	Recall Std Dev	F1- score	F1- score Std Dev	Entrop y	Entroy Std Dev
Logistic Regression	Simple	0.98	0.00	0.77	0.08	0.53	0.12	0.63	0.10	0.032	0.002
Logistic Regression	After Calibration	0.98	0.00	0.50	0.04	93	0.04	0.65	0.04	0.023	0.00
Logistic Regression	After ClusterCentroids	0.78	0.04	0.07	0.01	0.99	0.02	0.13	0.02	0.35	0.01
Logistic Regression	After TomekLinks	0.98	0.00	0.73	0.067	0.55	0.11	0.62	0.08	0.03	0.00
Logistic Regression	After RandomUnderSampler	0.92	0.00	0.18	0.01	985	0.02	0.31	0.01	0.19	0.00
Logistic Regression	After SMOTE	0.96	0.00	0.301	0.04	0.885	0.04	0.44	0.051	0.05	0.00
Logistic Regression	After ADASYN	0.961	0.00	0.29	0.03	0.88	0.03	0.44	0.058	0.007	0.00
Logistic Regression	After RandomOverSampling	0.96	0.00	0.32	0.03	0.97	0.02	0.48	0.04	0.05	0.00
XGBoost	Simple	0.98	0.00	0.69	0.07	64	0.08	0.66	0.07	0.019	0.00
XGBoost	After Calibration	0.98	0.00	0.482	0.03	0.945	0.03	0.63	0.03	0.02	0.00
XGBoost	After ClusterCentroids	0.88	0.04	0.14	0.04	0.99	0.020	0.24	0.06	0.14	0.02
XGBoost	After TomekLinks	0.98	0.00	0.683	0.08	0.6	0.10	0.63	0.08	0.01	0.00

XGBoost	After RandomUnderSampler	0.96	0.00	0.35	0.05	0.975	0.02	0.51	0.06	0.076	0.009
XGBoost	After SMOTE	0.97	0.00	0.39	0.05	0.825	0.10	0.53	0.07	0.02	0.00
XGBoost	After ADASYN	0.973	0.00	0.38	0.06	0.82	0.107	0.518	0.07	0.024	0.0
XGBoost	After RandomOverSampling	0.98	0.00	0.55	0.04	0.775	0.11	0.64	0.06	0.01	0.00
SVM	Simple	0.99	0.00	0.79	0.07	0.51	0.10	62	0.08	0.03	0.00
SVM	After Calibration	0.98	0.00	0.64	0.04	0.72	0.06	0.68	0.04	0.04	0.00
SVM	After ClusterCentroids	0.67	0.12	0.05	0.01	0.99	0.01	0.10	0.02	0.479	0.019
SVM	After TomekLinks	0.98	0.00	0.793	0.07	0.514	0.10	0.619	0.08	0.03	0.00
SVM	After RandomUnderSampler	0.94	0.00	0.227	0.03	0.985	0.02	0.368	0.04	0.10	0.00
SVM	After SMOTE	0.97	0.00	0.33	0.04	0.73	0.11	0.46	0.05	0.01	0.00
SVM	After ADASYN	0.97	0.00	0.34	0.05	0.73	0.11	0.46	0.06	0.01	0.00
SVM Ta inja agha amin	After RandomOverSampling	0.981	0.00	0.48	0.04	0.92	0.055	0.632	0.04	0.005	0.00
Random Forest	Simple	0.98	0.00	70	0.09	: 0.51	0.15	0.58	0.13	0.02	0.00
Random Forest	After Calibration	0.98	0.00	0.54	0.06	0.80	0.09	0.64	0.07	0.03	0.00
Random Forest	After ClusterCentroids	0.93	0.01	0.20	0.02	0.985	0.0	0.33	0.03	0.35	0.020
Random Forest	After TomekLinks	0.98	0.00	0.712	0.11	0.51	0.11	0.59	0.11	0.026	0.00

Random	After	0.95	0.00	0.26	0.03	0.97	0.02	0.41	0.04	0.16	0.00
Forest	RandomUnderSampler										
Random	After SMOTE	0.98	0.00	0.416	0.05	0.875	0.09	0.56	0.06	0.02	0.00
Forest											
Random	After ADASYN	0.97	0.00	0.41	0.05	0.85	0.09	0.55	0.06	0.02	0.00
Forest											
Random	After	0.98	0.00	0.66	80.0	0.59	0.11	0.62	0.09	0.02	0.00
Forest	RandomOverSampling										
Decision	Simple	0.98	0.00	0.59	0.09	0.55	0.09	0.57	0.09	0.00	0.00
Tree											
Decision	After Calibration	0.98	0.00	0.63	0.09	0.50	0.12	0.56	0.11	0.058	0.00
Tree											
Decision	After ClusterCentroids	0.85	0.05	0.12	0.04	0.985	0.02	0.21	0.07	0.00	0.00
Tree											
Decision	After TomekLinks	0.98	0.00	0.57	0.11	0.555	0.13	0.56	0.12	0.0001	0.0003
Tree											
Decision	After	0.93	0.01	0.21	0.03	0.94	0.03	0.34	0.05	0.00	0.00
Tree	RandomUnderSampler										
Decision	After SMOTE	0.97	0	0.39	0.04	0.84	0.07	0.53	0.05	0.00	0.00
Tree											
Decision	After ADASYN	0.97	0.003	0.38	0.04	0.83	0.06	0.52	0.05	0.00	0.00
Tree											
Decision	After	0.98	0.00	0.60	0.09	0.53	0.11	0.56	0.10	0	0
Tree	RandomOverSampling										
DBC		0.97	0.05	0.71	0.31	0.95	0.06	77	0.27	0.01	0.01