

# Airline Passenger Satisfaction Prediction Models

Model

All

Model	f1-score	precision	recall	support
LightGBM	0.98	0.98	0.98	2345
Random Forest	0.98	0.98	0.97	2345
Decision Tree	0.97	0.97	0.97	2345
KNN	0.97	0.97	0.97	2345
SVM	0.97	0.96	0.97	2345
AdaBoost	0.95	0.93	0.97	2345
LabelPropagation	0.94	0.92	0.97	2345
Label Spreading	0.94	0.94	0.94	2345
LogisticRegression	0.94	0.93	0.94	2345
Naive Bayesian	0.92	0.94	0.90	2345
DummyClassifier	0.70	0.54	1.00	2345

Best Performing Model

LightGBM

0.98

f1-score

0.98

precision

0.98

recall

2345

support

Select all

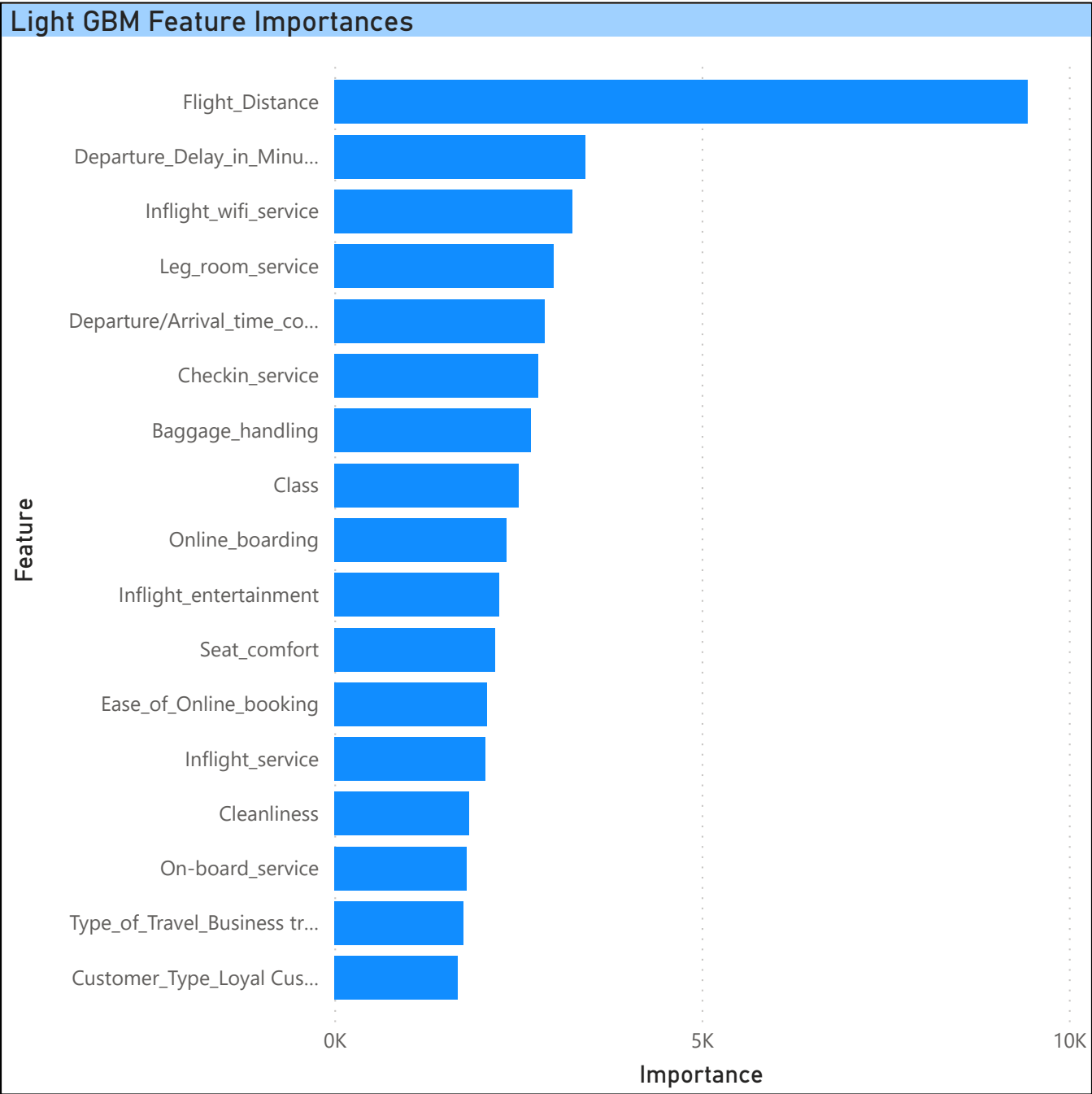
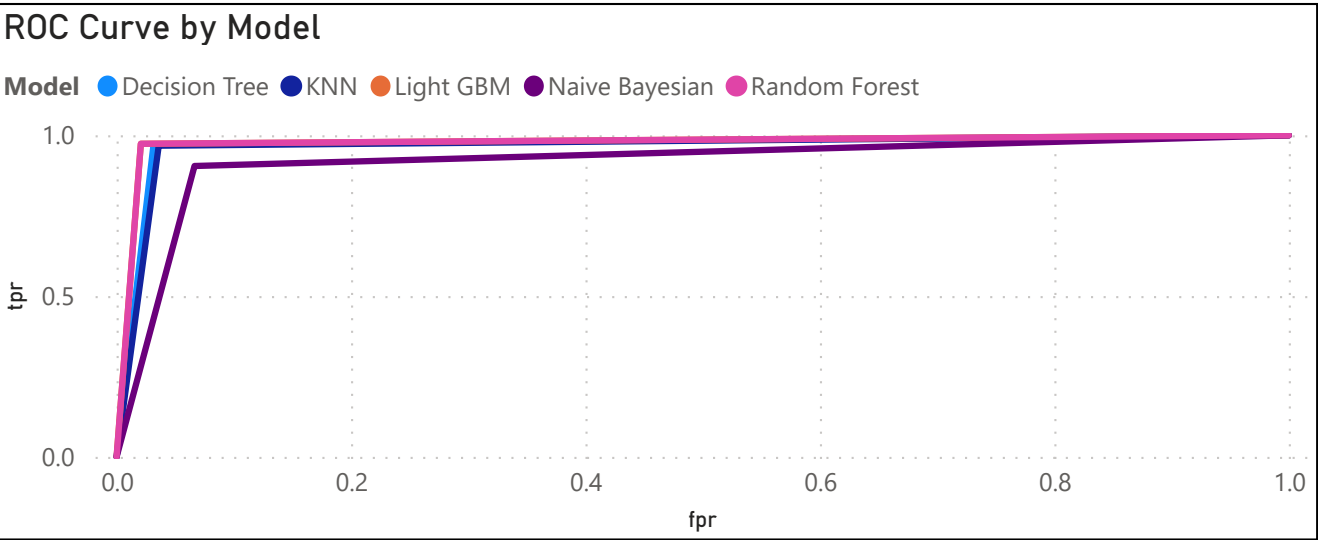
Decision Tr...

KNN

Light GBM

Naive Baye...

Random Fo...



Business Insights

satisfaction

Select all

0

1

Month

All

Flight\_Distance\_Category

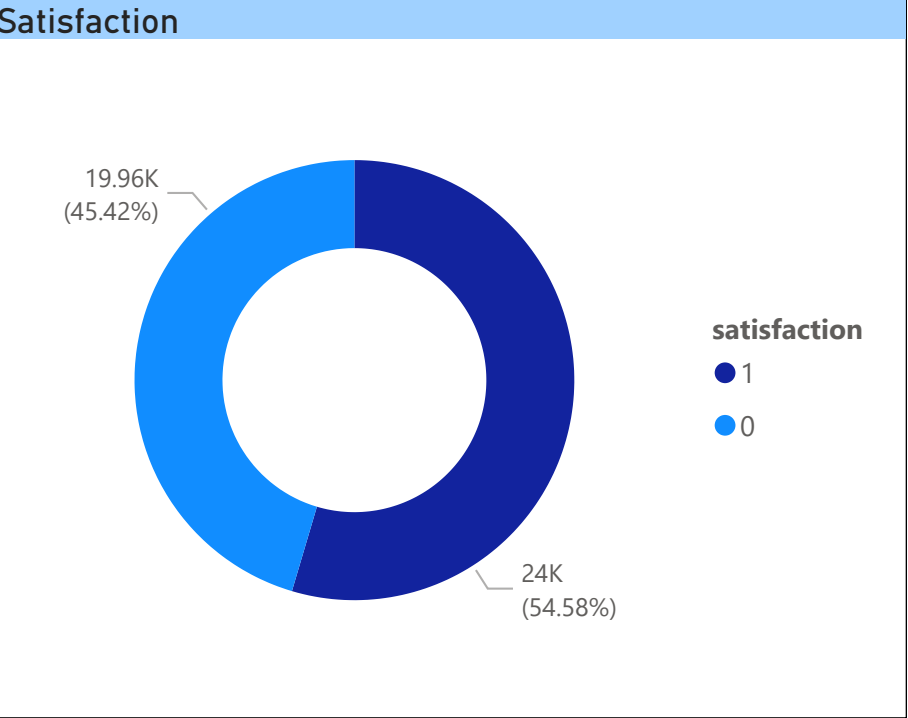
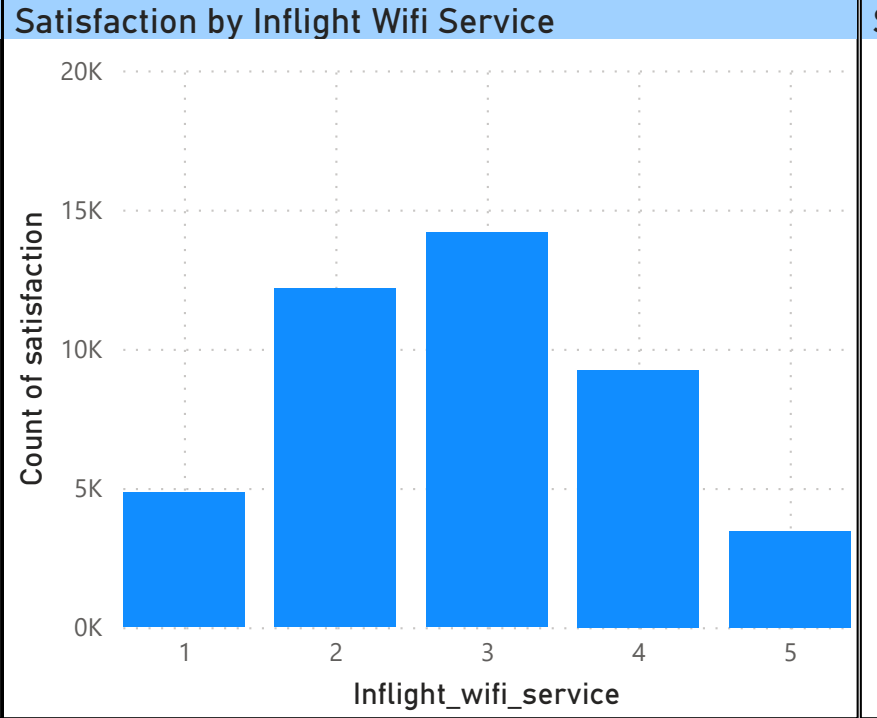
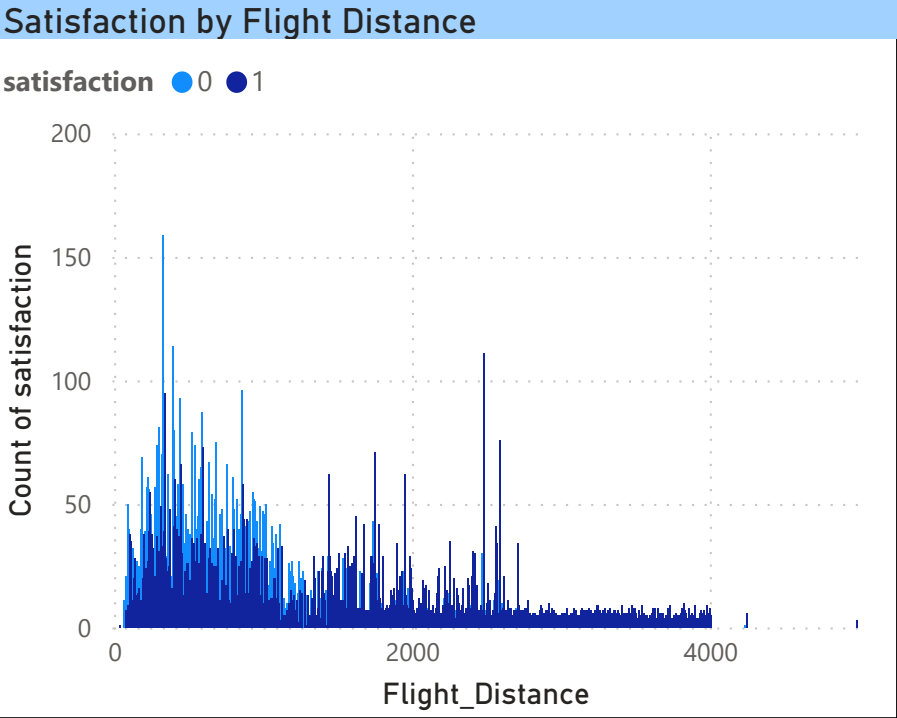
Select all

Above Average

Average

Long

Very Short



1.32K

Average flight distance

43.96K

Count of satisfaction

