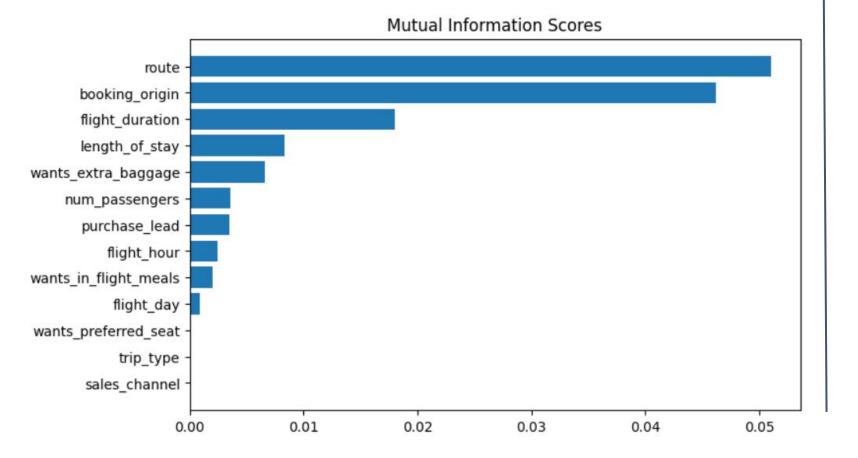


Predicting Passenger Booking Likelihood

By Mark Coty https://github.com/markcoty/markcoty From the graph below, we can see that Route, Booking Origin, Flight Duration, Length of Stay, Number of Passengers, and Extra Baggage are the top 6 features which on which the Booking Complete feature depends.



The following models were tested:

Model 1 : Random forest classifier with top 6 features

ACCURACY: 83.36AUC score: 0.56578

Model 2: Random forest classifier with all features

ACCURACY: 84.76AUC score: 0.54796

• Model 3: XGB classifier with top 6 features

ACCURACY: 84.87AUC score: 0.500543

Model 4: XGB classifier with all features

ACCURACY: 84.83AUC score: 0.50655

 Validating Model 2 as final model, as it has good accuracy and higher auc score compared to other models:

ACCURACY: 85.09

AUC score: 0.55778

Conclusion: Model 2 is best, but a higher AUC score is desirable.