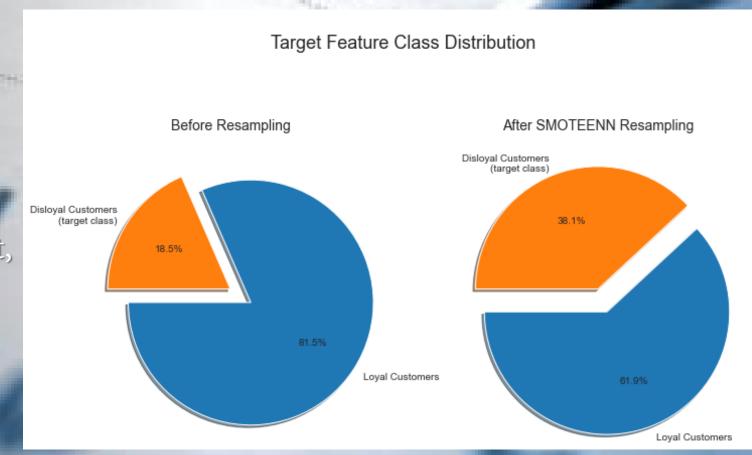
SIGNA AIRLINES

The Future of Customer Satisfaction



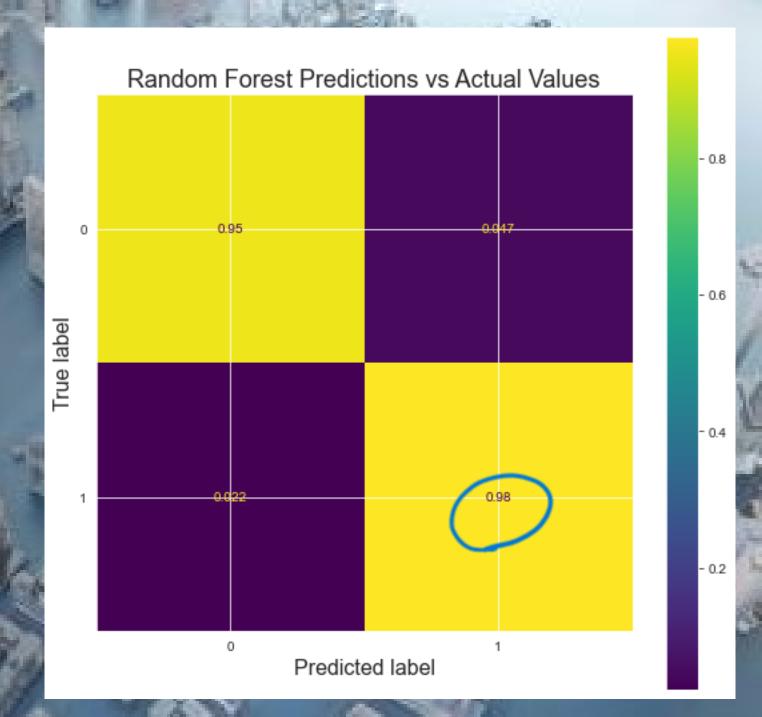
The Data

- Over 100k total records
- Describes flight details (e.g. distance, class)
- Describes customer's sentiment,
 including survey responses
- Preprocessed (e.g. missing values, encoding)
- Resampled (SMOTEENN)



The ML Model

- Random Forest Classifier
- 98% accuracy, 0.94 F1 Score
- Preprocessed (e.g. missing values, encoding)
- Resampled (SMOTEENN)



Customer Satisfaction By Age, Flight Distance and Loyalty Loyal Disloyal Satisfied Customers **Disatisfied Customers** Flight Distance Disatisfied fourth quartile Loyal Disloyal Age

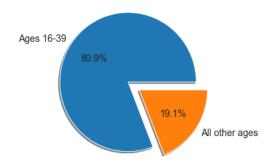
Discoveries

Bulk of dissatisfaction found in:

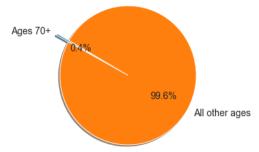
- Flights under 1500 miles
 - Flyers under 30
- Mostly disloyal customers

Disloyal Market Share by Demographic Groups

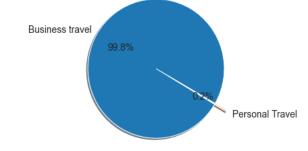
Young adults flying less than 3000 miles



Seniors flying less than 1500 miles

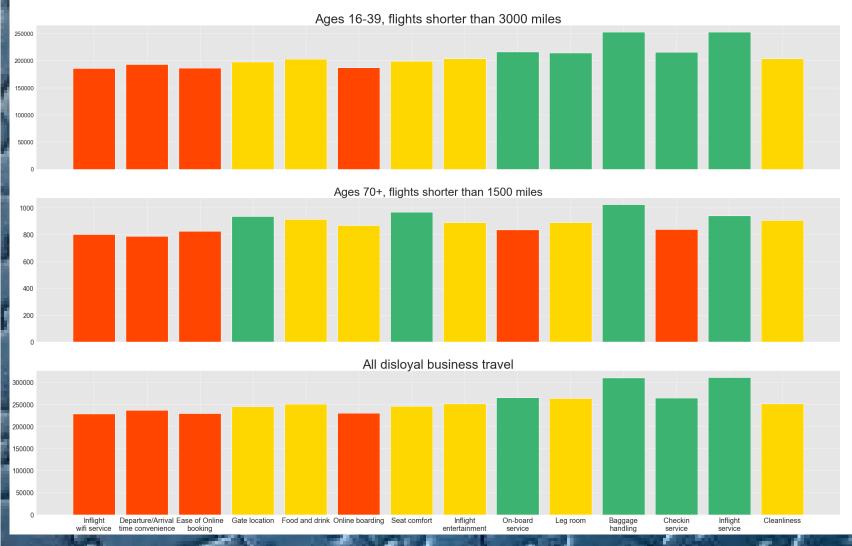


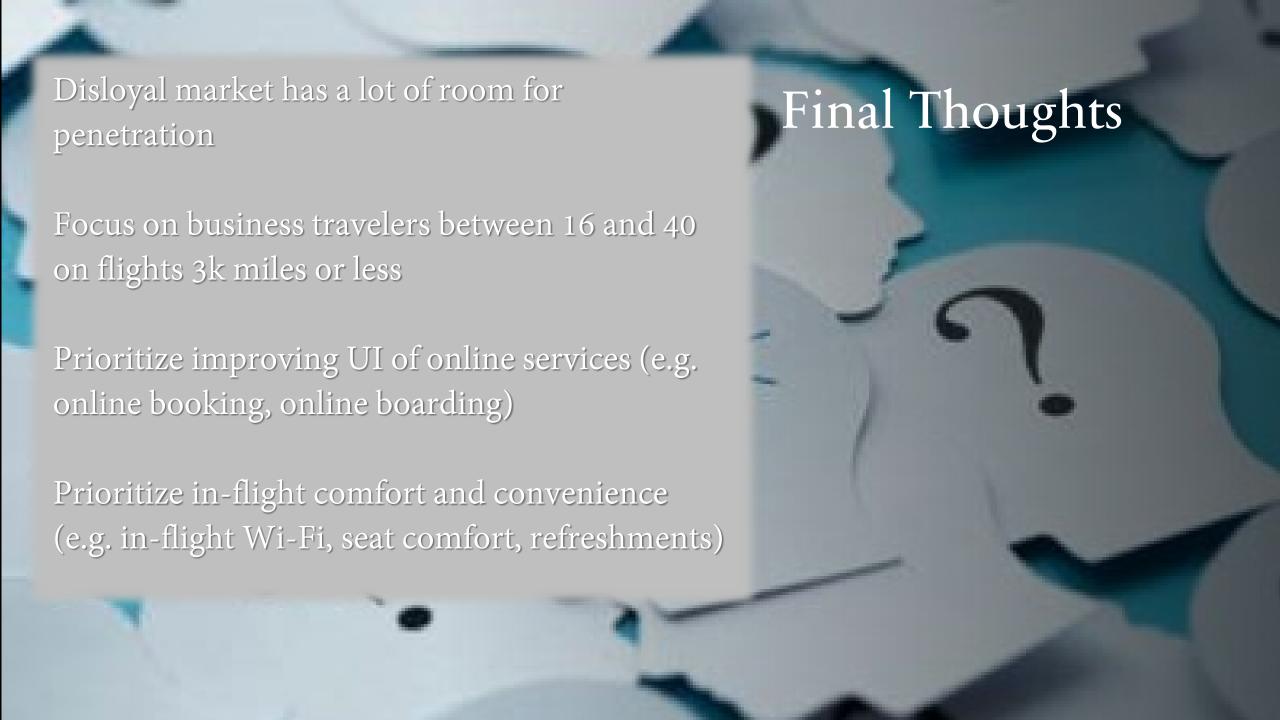
Business travel, all ages. all distances













For More Information . . .

Explore the GitHub repository

Connect with me on LinkedIn

Send me an email at zethusabney@gmail.com

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