

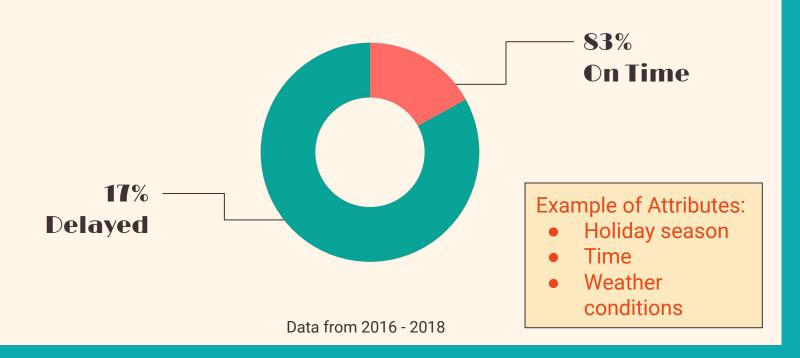
Context & Background

- Flight Delays
- Model as ATC Supplemental Planning Toll





Data Breakdown



Process Outline

01

Data Pulling

02

Data Processing

O3 Model Exploration

04

Finalizing Model



Initial Model Comparison



NN - .2

Random Forest - .01

• Logistic-.3

Final Logistic Model



• Precision: .23

Recall: .69

• F1:.35

Weighted Classes [1:5.3]

Test Predictions



Flight #3332

SkyWest Airlines

Severe Weather

T/F



Flight #609

American

Light Weather

F/F



Flight #2303

Delta

Light Weather

T/T



Future Work

- Interactive Tableau Dashboard
- Modeling Varying "delay" levels
- Boosted Gradient Models