PEACE ZIGAH

Bringing data to life through story-telling

Background:

- 10+ years experience in Telecommunication, Finance & Retail

Based:

- Toronto, Ontario

CAPSTONE

C

FLIGHT ESTIMATOR

FLIGHT PRICE PREDICTION PROJECT

CAPSTONE

C

CAPSTONE TOPIC

Can flight prices be predicted using machine learning models and techniques?

CAPSTONE

C

WHO AM I | THE TOPIC | THE DATA | MODELLING | RESULTS
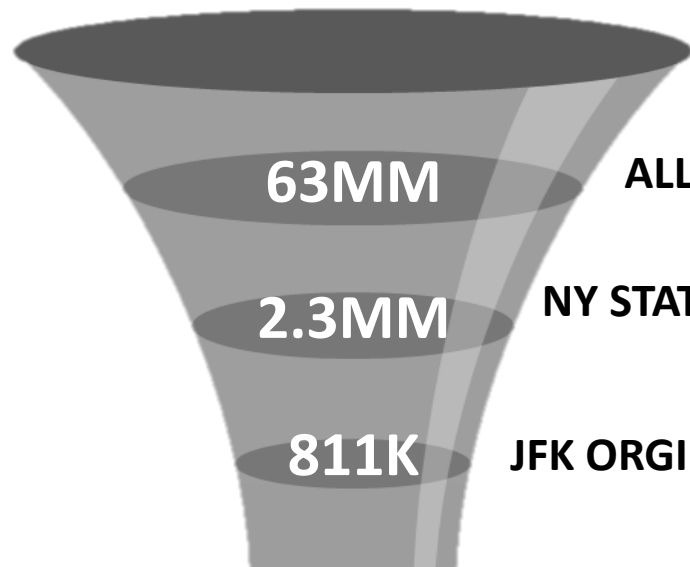
THE DATA SOURCE

CAPSTONE

C

EDA & PREPROCESSING DATA

CAPSTONE

➕ DATA FUNNEL

63MM	ALL US DIRECT FLIGHTS
2.3MM	NY STATE ORGIN DIRECT FLIGHTS
811K	JFK ORGIN DIRECT FLIGHTS

Amazon S3

Amazon SageMaker

WHO AM I THE TOPIC THE DATA MODELLING RESULTS

MODELLING

+ REGRESSION SUPERVISED LEARNING

R^2:

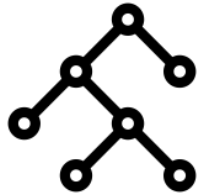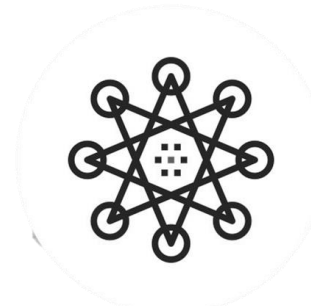|	Train: 13%	Train: 51%	Train: 50%	Train: 32%	Train: 5%
	Test: 12%	Test: 45%	Test: 46%	Test: 32%	Test: 5%

Linear Regression
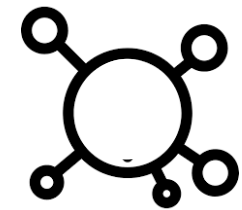
Decision Tree Regressor

Random Forest Regressor

Gradient Boosting Regressor

AdaBoost Regressor

WHO AM I   THE TOPIC   THE DATA   MODELLING   RESULTS

CAPSTONE

C

RESULTS

CAPSTONE

+ REGRESSION SUPERVISED LEARNING

R² : Train: 50%
Test: 46%

Random Forest Regressor

| 2020 | +7% performance improvement |

| OUTLIERS | +14% performance improvement |

| WHO AM I | THE TOPIC | THE DATA | MODELLING | RESULTS |

C

RESULTS

+ NEXT STEPS

CAPSTONE

Interactive Data Visualizations

New Travel Destinations

THANK YOU

👤 **PEACE ZIGAH**

https://github.com/Peacezigah

linkedin.com/in/peace-zigah/

Peace.zigah@gmail.com

CAPSTONE