IEEE-CIS Fraud Detection

PROTECTION

CAN YOU DETECT FRAUD FROM CUSTOMER TRANSACTIONS?

SECURITY

EDNA FERNANDES

FLATIRON ANALYTICS



AGENDA

BACKGROUND
PURPOSE
ANALYSIS
MODEL
NEXT STEPS

BACKGROUND

IEEE

CIS

In 2018, \$24.26 Billion was lost due to payment card fraud worldwide
The United States leads as the most credit fraud prone country with 38.6%

PURPOSE

Late for flight, paying for extra luggage, card declined.

Grocery store, long line behind you, card declined

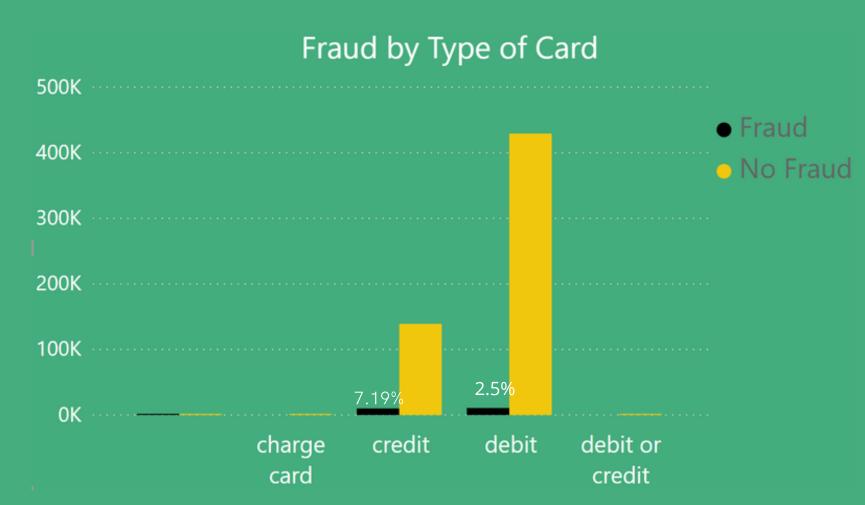
Increase customer experience
Businesses reduce their fraud loss and increase revenue

Computational
Intelligence Society
wants to improve the
fraud detection system

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ANALYSIS





Model

It's showtime!

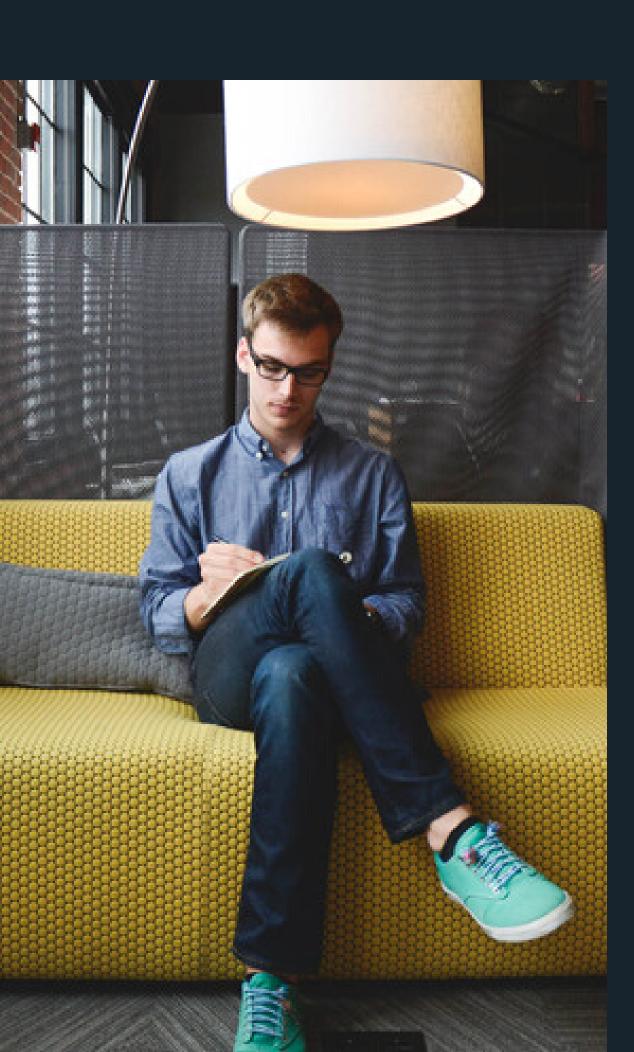
Given the short amount of time I was still able to get 76% AUC!

CHALLENGES

Size of the dataset

Anonymized data





What's Happening Next

Use analytical insights to improve the model score.

