Machine Learning Powered

Web Applications

Difficulty: **Intermediate**

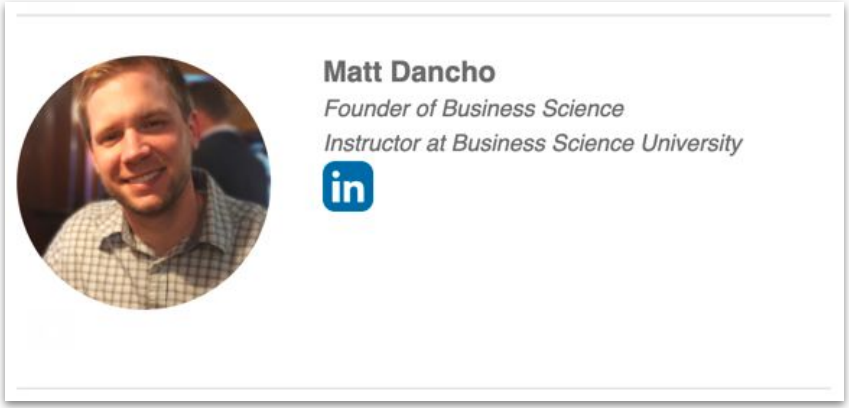
Matt Dancho

Business Science Workshop

Learning Lab Structure

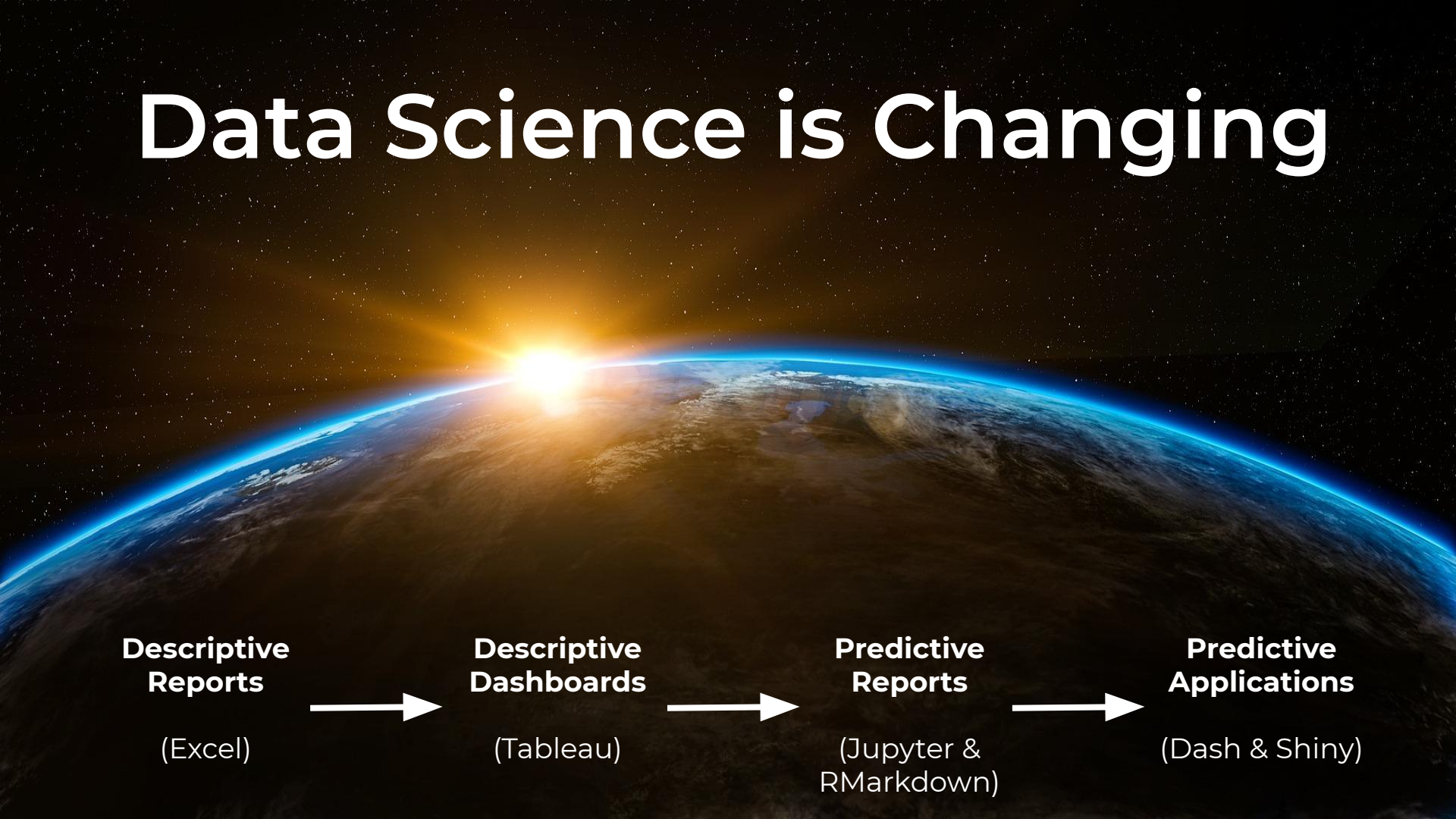
- **Presentation**
  (10 min)
- **Demo + Break**
  (45-10-45 min)
- **Recap**
  (10 mins)

Hit me up on
LinkedIn



Businesses are Shifting To
To Predictive Apps
#DataDemocratization

Data Science is Changing



In the last 15 years, 52% of Fortune 500s Were Replaced

1955
Avg Time 75 years

2015
Avg Time 15 years

ML-App that identifies anomalous payments

SAFEAUTO

Payments Dashboard

Download full dataset

Data current through 27 Apr 2016

Data sourced from AutoPilot_Staging

Payment Type:

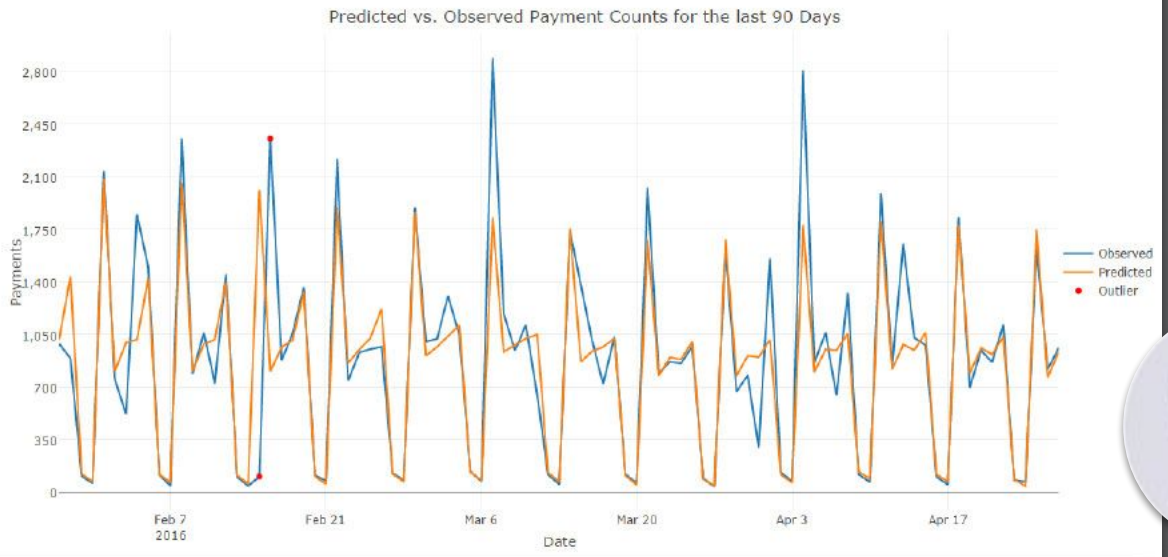
Cash

Payment Channel:

- All
- Bill Consolidator
- Lock Box
- Phone Rep
- Vendor Payment

Trailing Payments | Payment Analytics | F.A.Q.

Predictions | Summary | Analytics F.A.Q.



RStudio gave us what we need to deliver data science applications that our business depends on.”

- John Kish, CIO at SafeAuto Insurance

ML-App that performs Traffic Analysis

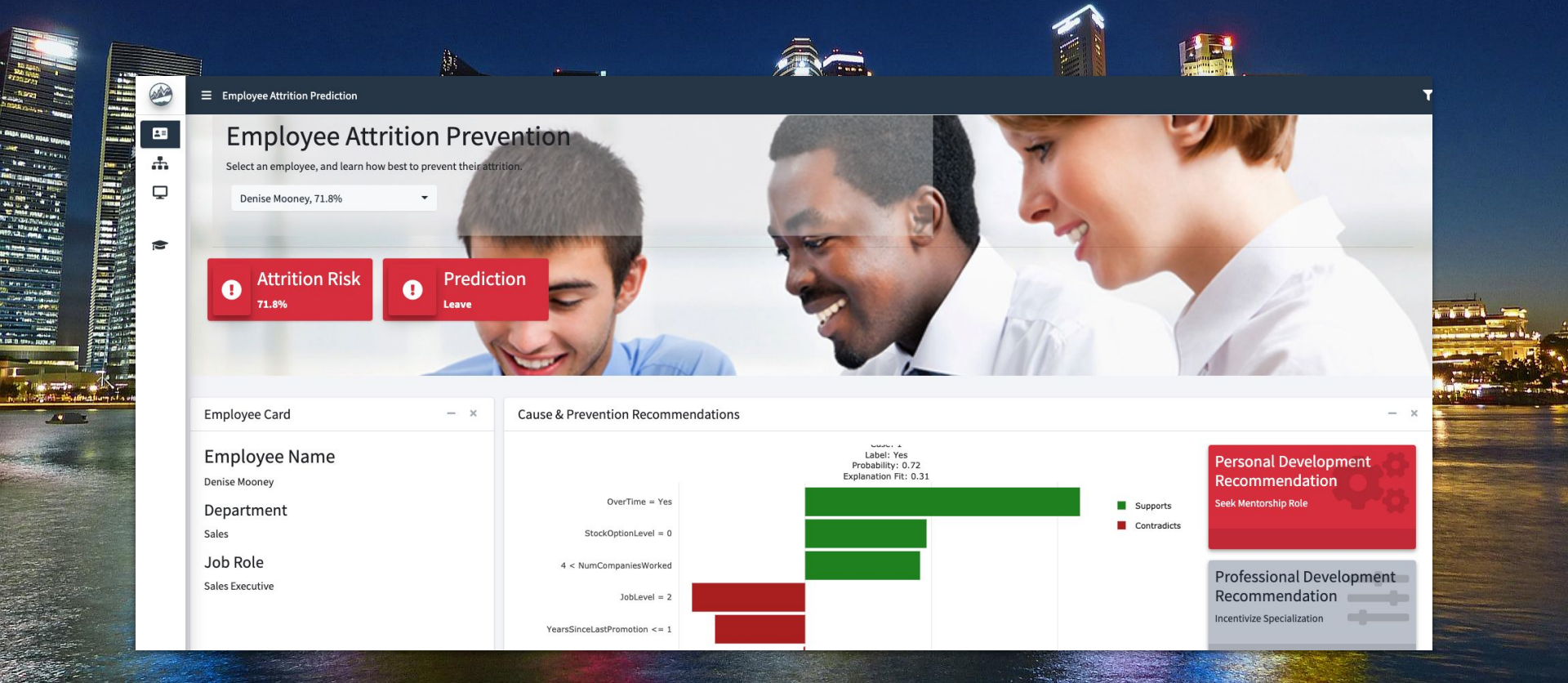
waze
OUTSMARTING TRAFFIC, TOGETHER

“Shiny dashboard and visualization development allowed the fastest time to market.”

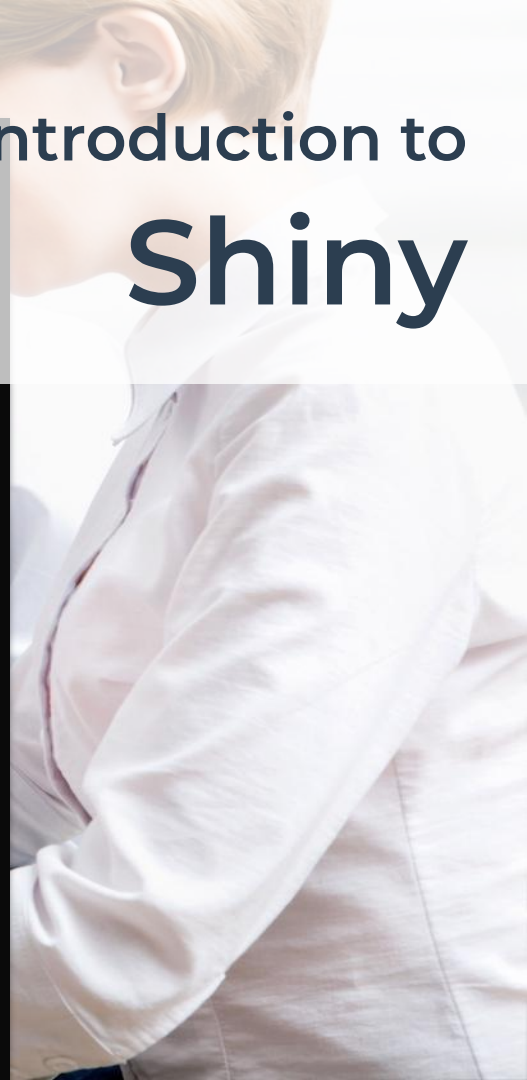
- Daniel Marcous, Google, Waze Data Wizard

What is the common thread?

ML-Powered Applications



Introduction to Shiny



Sales Demand Forecast by Business Science

An application we're building at DSGO 2019

Pick a model type

XGBoost

Product Group

Mountain, Road

Product Sub-Group

9 items selected

Customer

30 items selected

Time Unit

Day | Week | Month | Quarter | Year

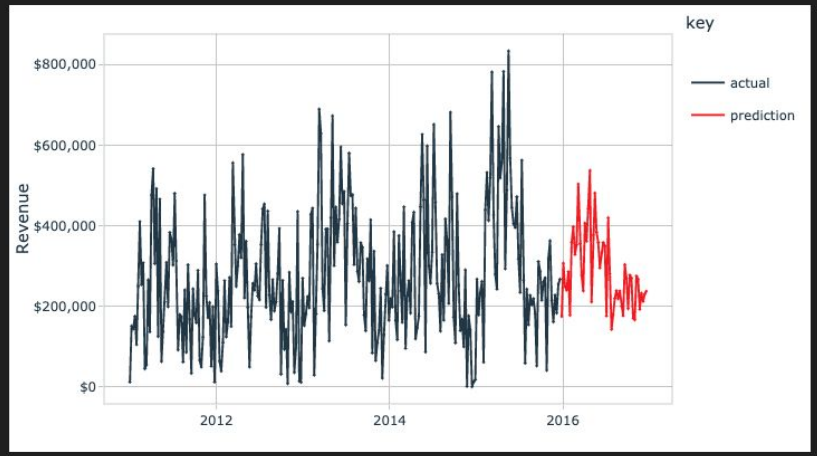
Forecast Periods

52

Add Smoother

▶ Calculate Forecast

Revenue Forecast



Time to Learn