Cobalt®

What is this about?



Increase dealership sales

Increase consumer satisfaction

Categorize car shopper type

### **Problem Statement**

- We don't know enough about automotive consumer.
- How to use online behavior to predict consumer preferences on new vs. used cars?
- What are the variables that most significantly represent consumer characteristics?

#### Data Sources

## 40 GB of Enterprise Data XXX

from xxx to xxx

# **Research Method**



#### **Data Processing**

Steps

Stages

✓ Understanding automotive industry ✓ Research literature review

✓ Current research methods

✓ Variable selection

✓ Data collection

✓ Data exploration & cleanup



# **Automotive Shopper Consumer Segmentation**





Information School

UNIVERSITY of WASHINGTON

#### Accomplishments

Increased New/Used car shopper classification accuracy from 66% to 85%.

Associated customer characteristics (Age/Income/Region) with car shopping preferences.

> Built multiple statistical models with high accuracy, recall and significance.

Connected and processed large data sets from multiple sources using PostgreSQL, R and Excel.

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