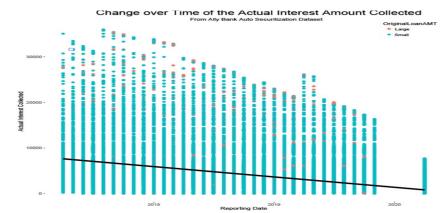
IST 719: Ally Bank Auto Securitization

By: Matt McDonnell, Nicholas Schloop & Sihan Yang

Goal: Assess loan pool traits and profit/loss conditional correlations.

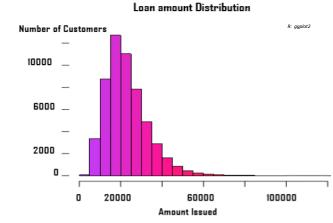
<u>Our Process</u>: Exploring loan features for each individual illustrated some interesting trends in the obligee issued loans, which could be useful for Ally and other banks. The data itself is 110,664 rows and 22 columns after cleaning. The original dataset had close to 2,000,000 rows and 74 columns before being parsed down using random sampling, removal of duplicates, and text matching for mismatched brands and dates in different reporting periods.

Realization of Lost Profit

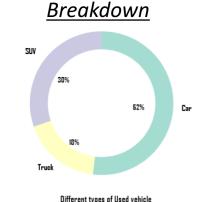


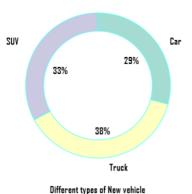
Cumulative Rates by FICO Buckets Sum of John Community Street St

FICO Buckets



New/Used Vehicle

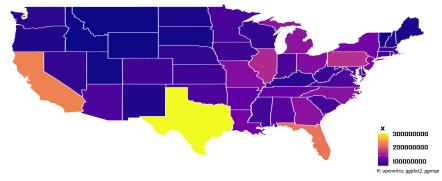




Questions We Are Looking to Answer

- Over time, what occurs to total interest collected as obligators pay more than the required principal amount? Effect on profit?
- P. How does vehicle type vary by new/used car status and how could it determine risk and pooling of future securitizations?
- 3. Which regions are most prevalent in this pool and what could this reveal about buying patterns of top car brands in the pool?
 - How do obligator rate buckets reflect on interest rates offered?

Loan Amount Totals by State



Top 10 Car Brands purchased by Customers

