



EDA Case Study PPT

Types of Variables

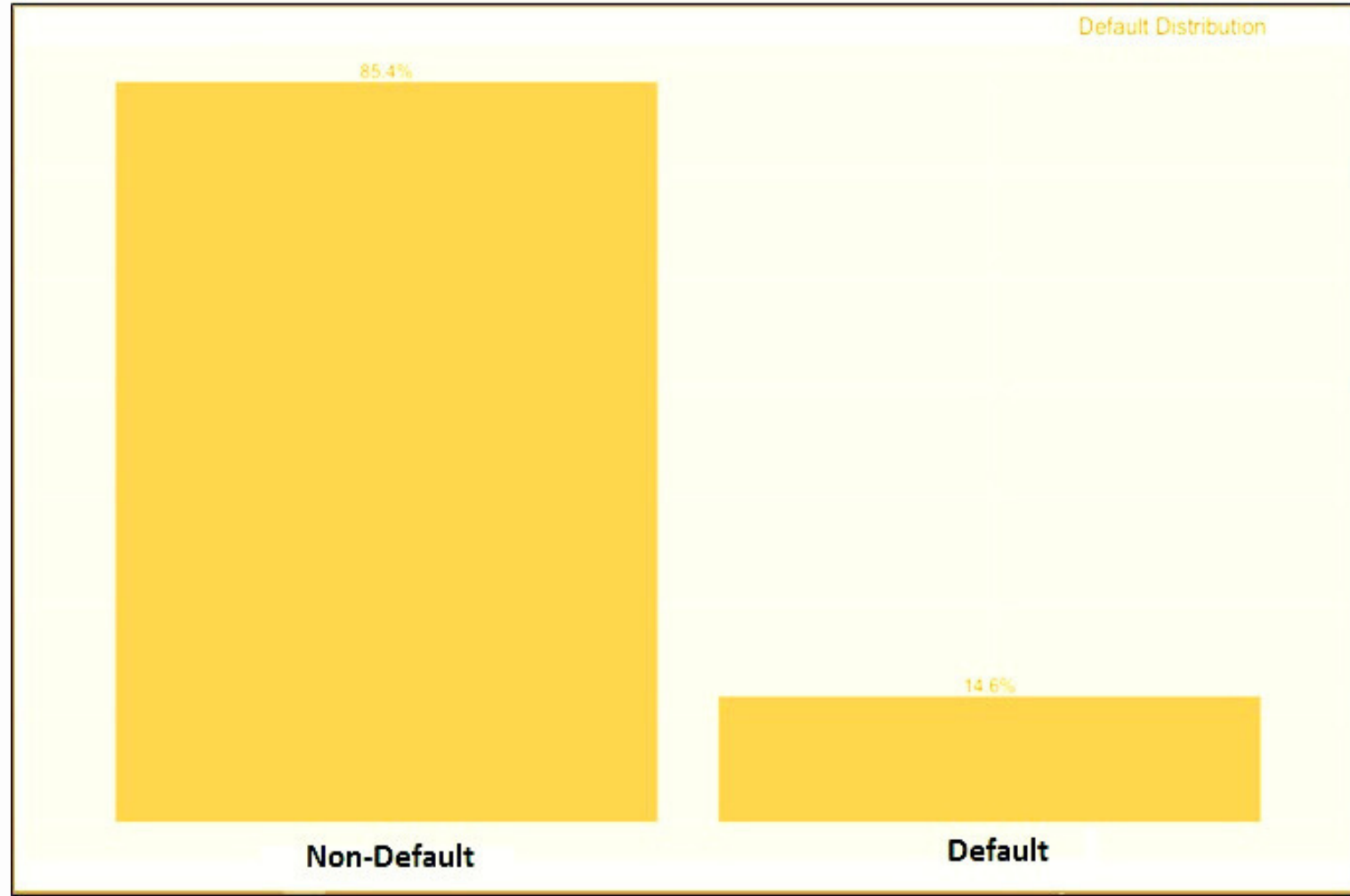
- Customer (applicant) demographic
- Loan related information & characteristics
- Customer behaviour (if the loan is granted)

Customer's Demographics
Employement Length
Employement title
Annual Income
Zip Code
Description

Loan Information & Characteristics
Loan Amount
Funded Amount
Funded Amount Investment
Interest Rate
Loan Status
Laon Grade

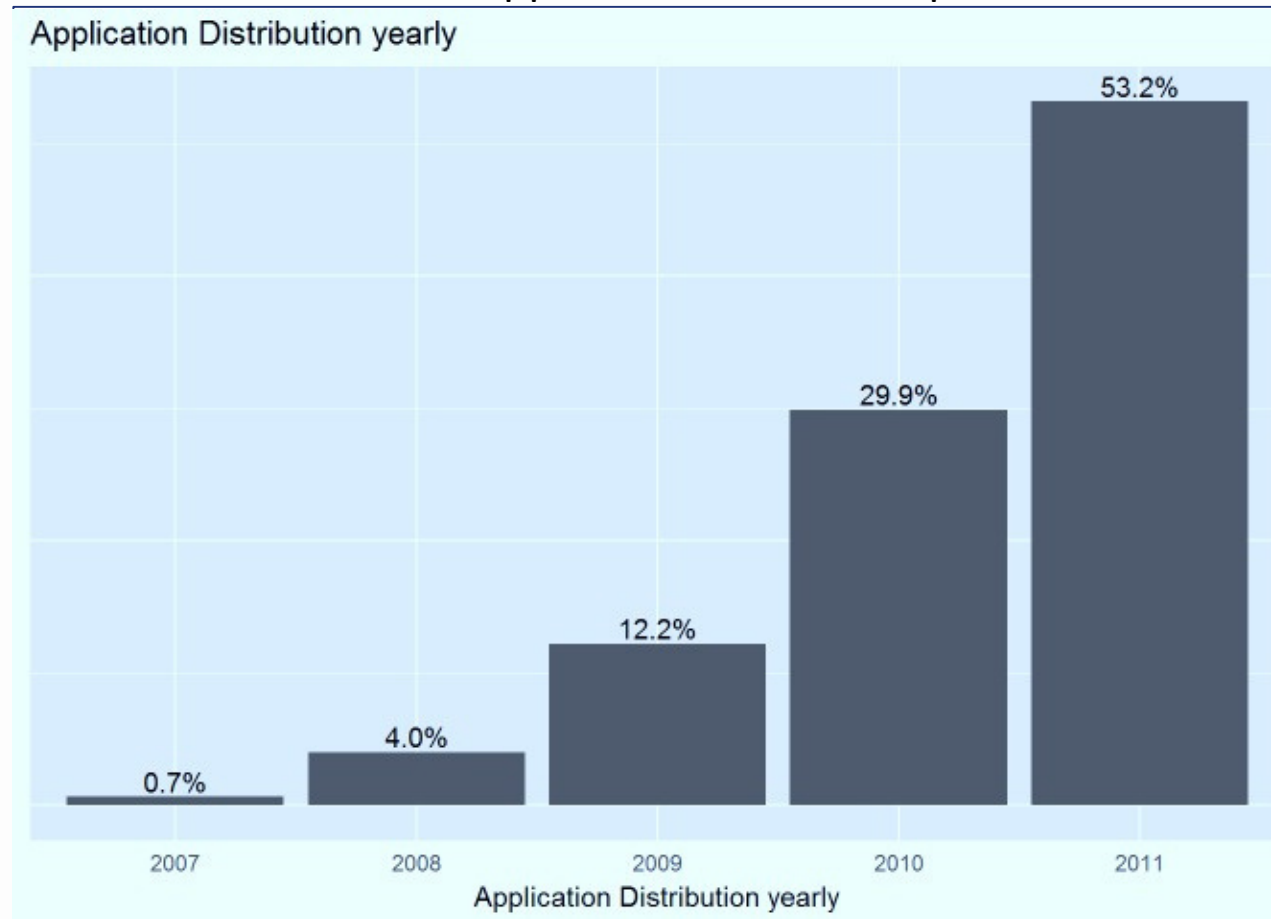
Customer Behaviour variables
Delinquency year -2
earliest credit line
Revolving balance
Recoveries
Application type
Loan purpose

Data Understanding -Overall Default Rate is 14%



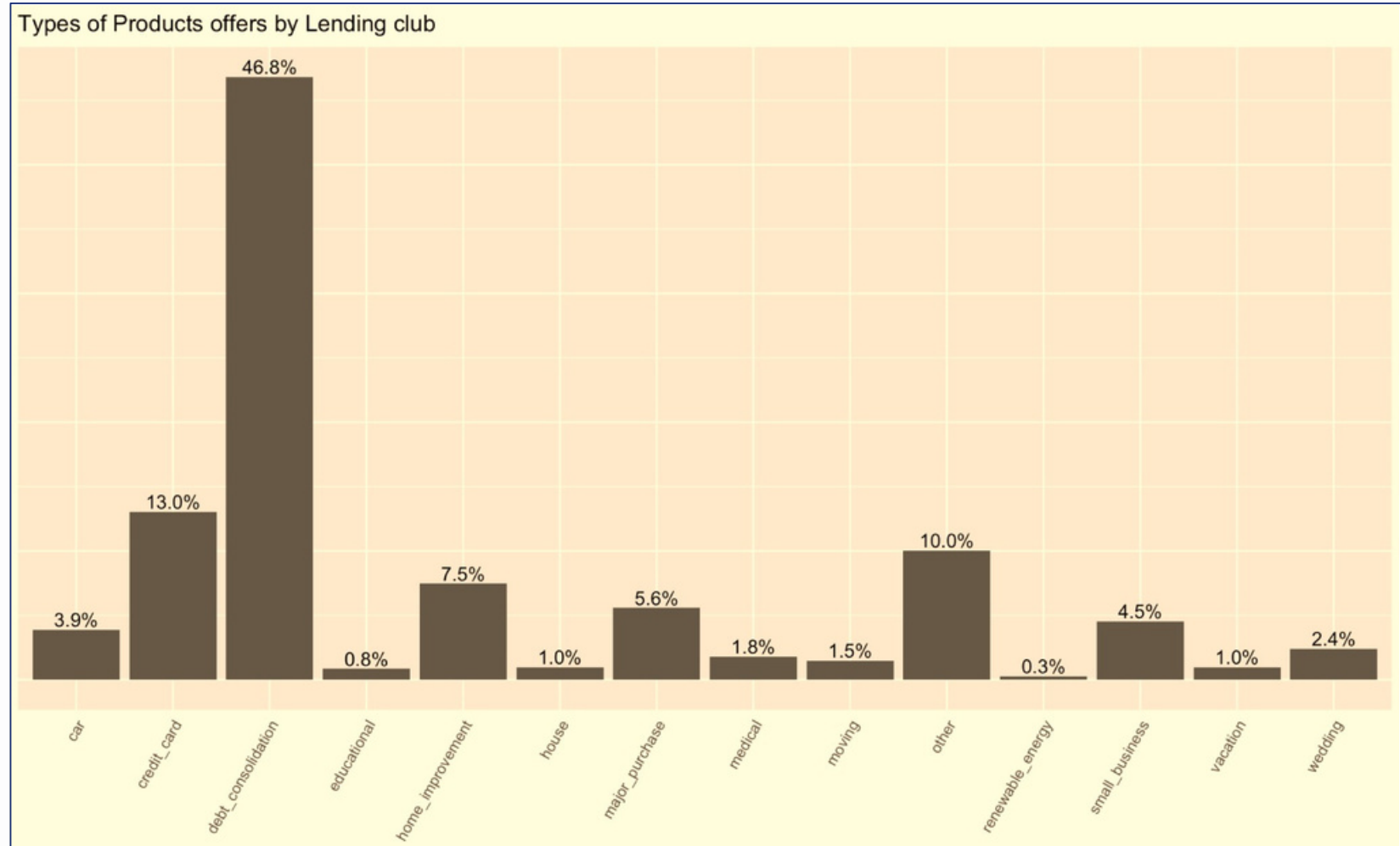
Time Frame of the Data –2007-2011

- 78% increment in applicants in 2011 compared to 2010
- 145% increment in applicants in 2010 compared to 2009



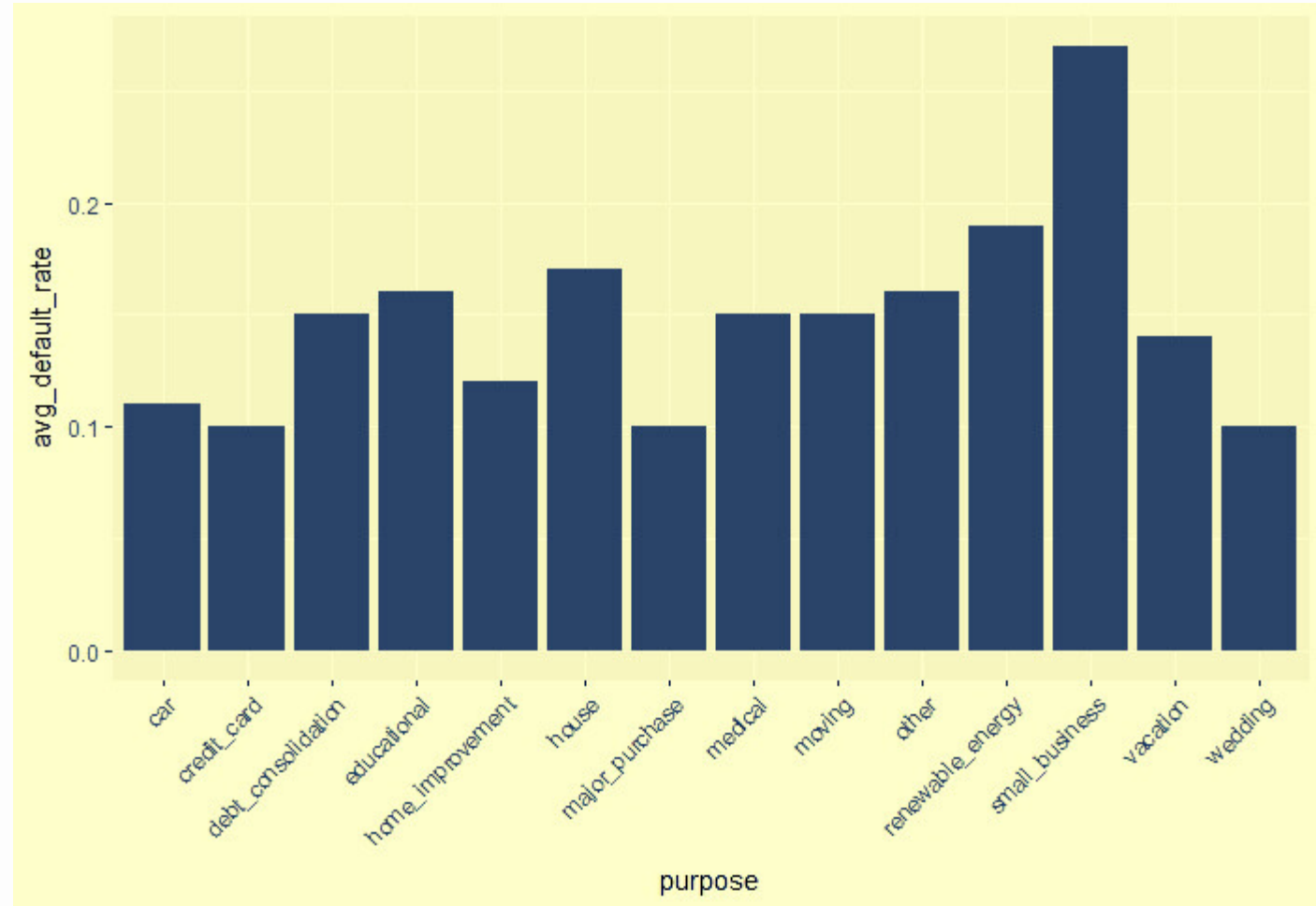
Loan Purpose Distribution : Debt Consolidation Loan is the most popular

- 46.8% debt consolidation loans
- 13% credit card loans
- 7.5% home improvement loans
- 5.6% major purchase loans



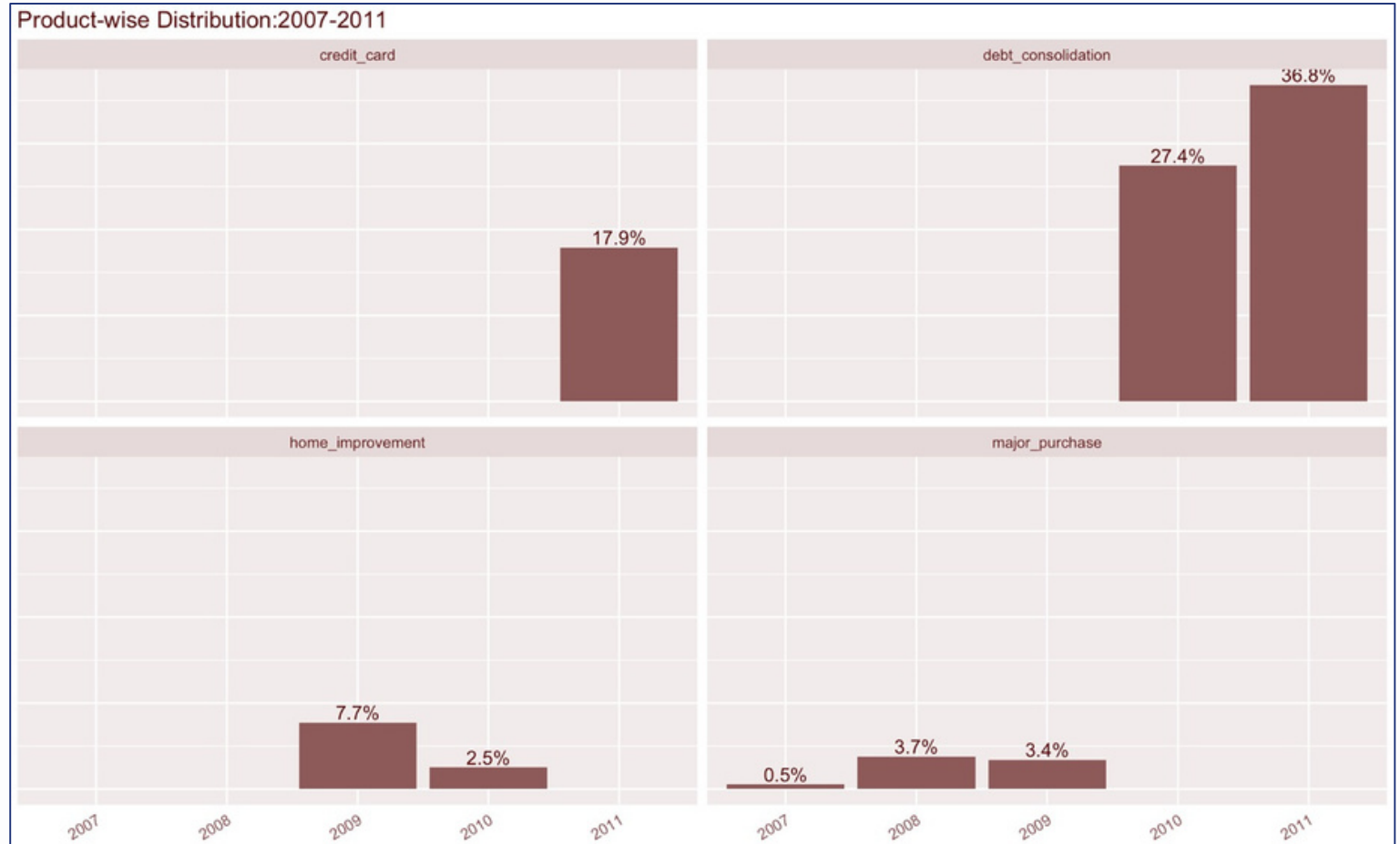
Default Rates By Loan Purpose

- Small business: 27%
- House: 17%
- Educational: 16%
- Debt consolidation: 15%
- Credit card: 10%
- Major purchase: 10%



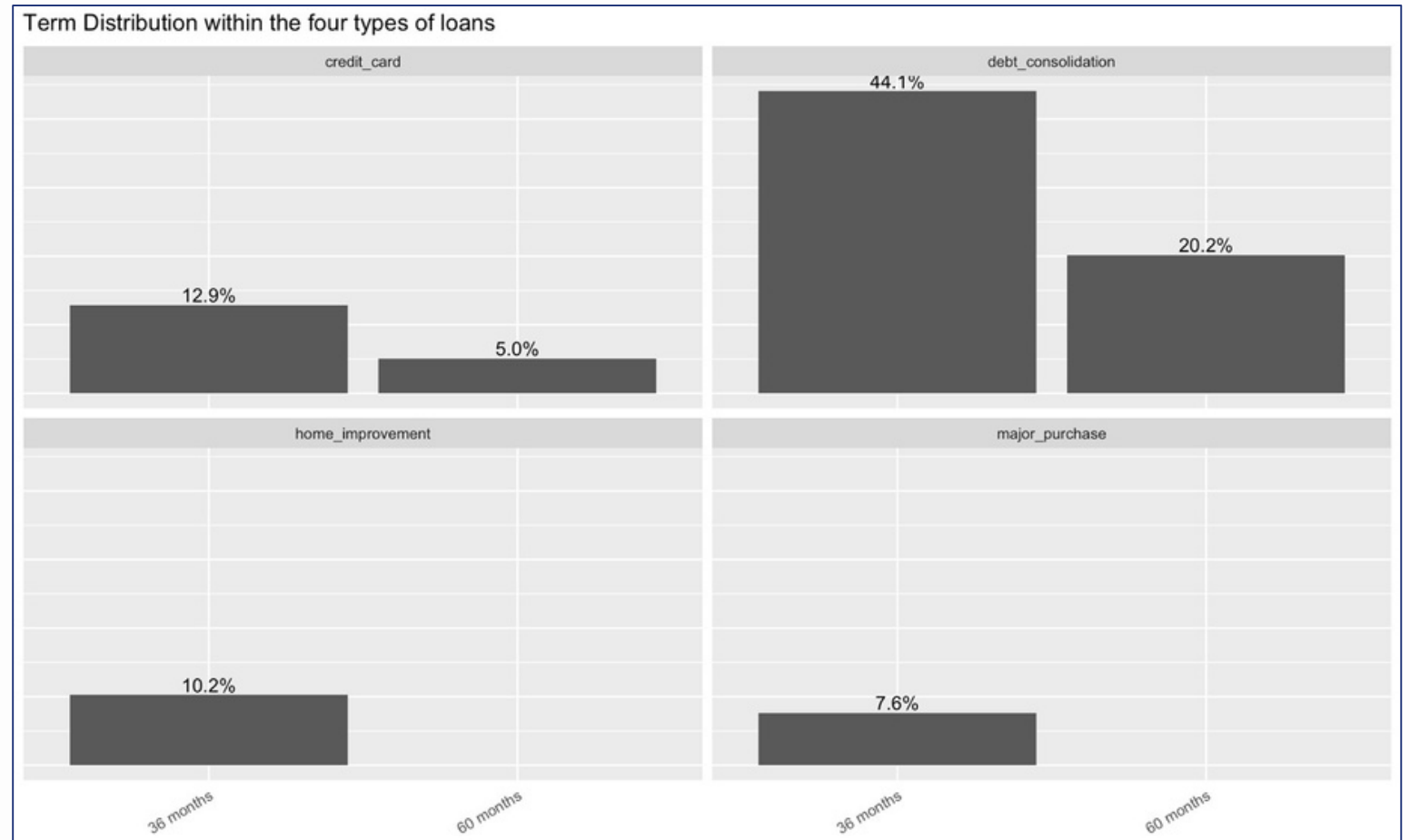
Top-4 Products over time: Credit Card, Debt Consolidation, Home Improvement & Major purchase

- In 2007 & 2008, Lending Club focused on major purchase loans
- In 2009, they started lending money for home improvement purpose also
- In 2010, they started lending loan for debt consolidation
- In 2011, credit card loans were introduced

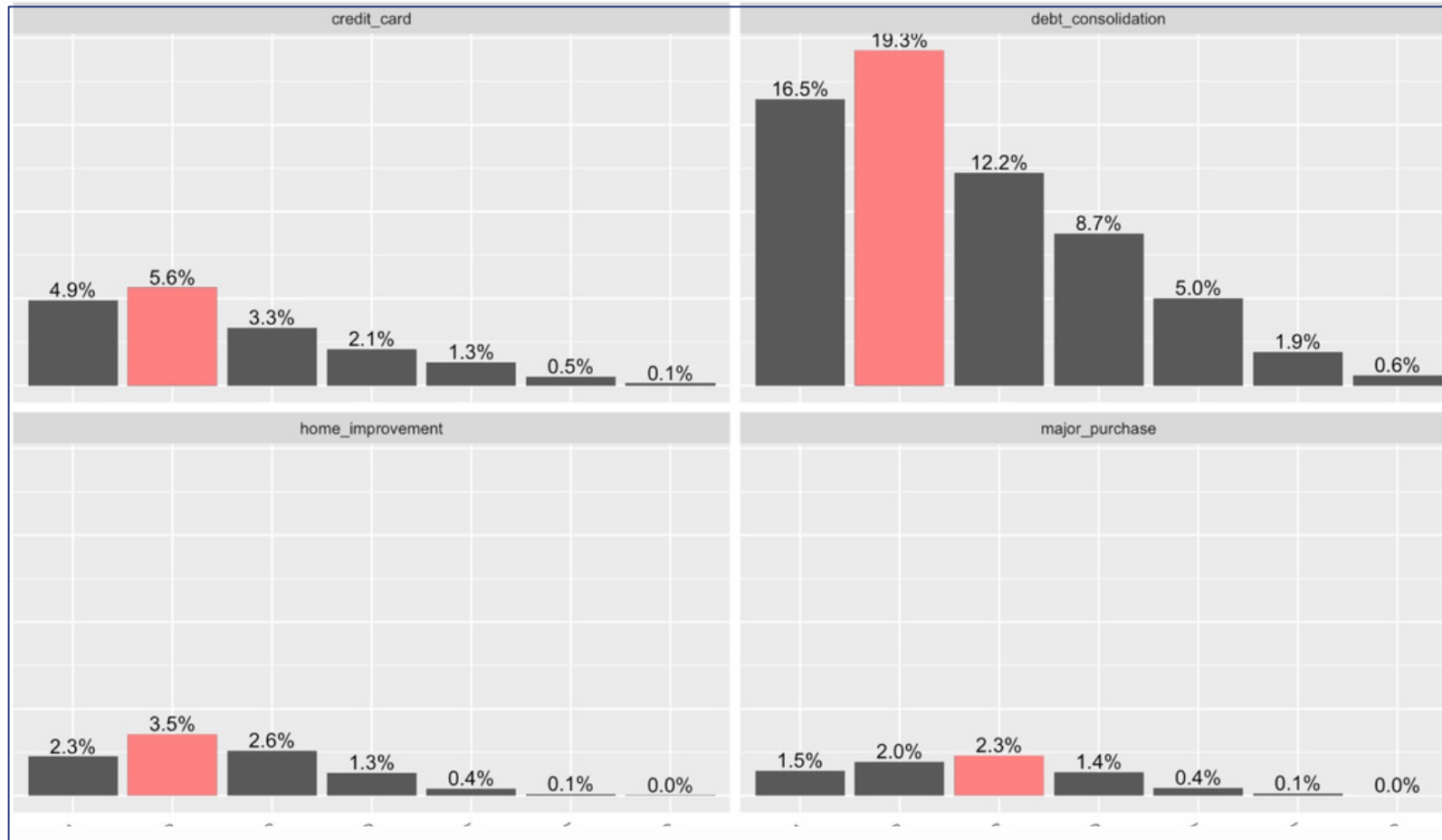


Term Distribution in Top-4 products

- Lending club has given out 36 month term period loan for major purpose and home improvement.

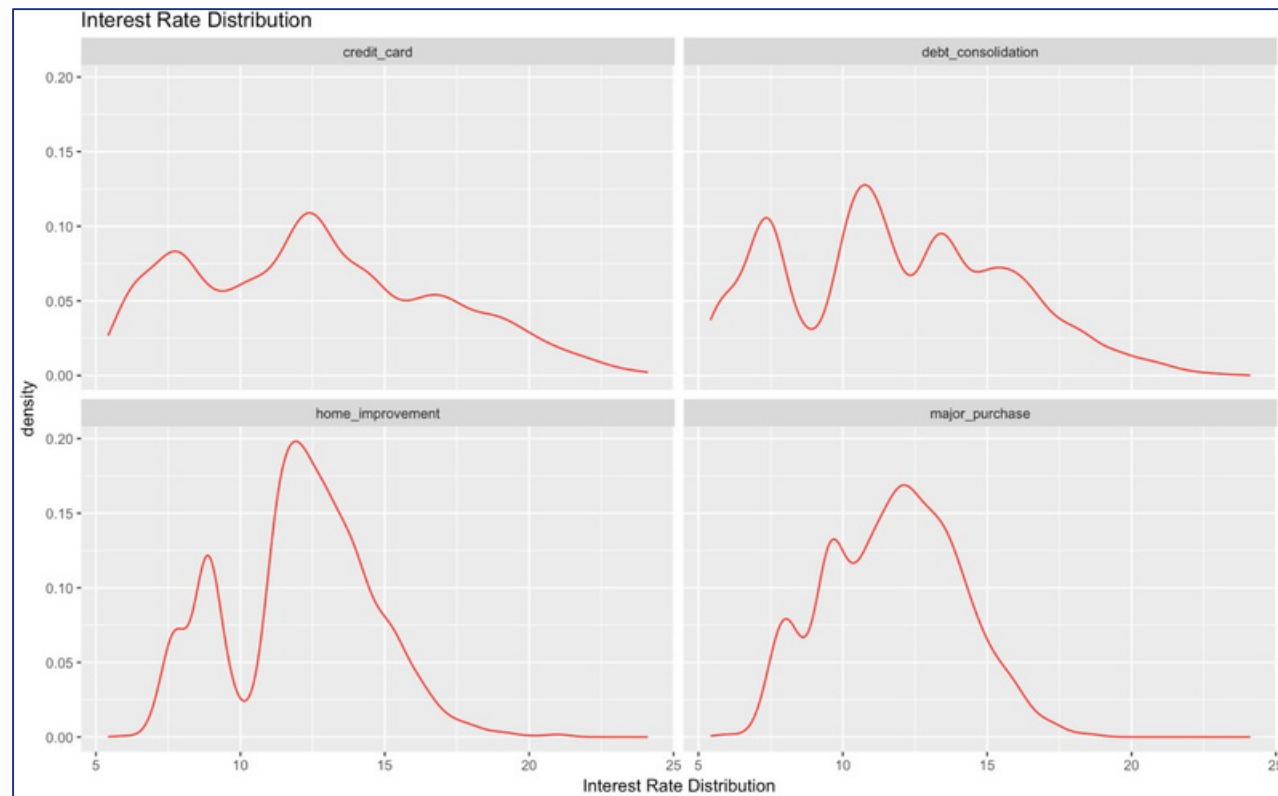


Grade Distribution in top-4 products

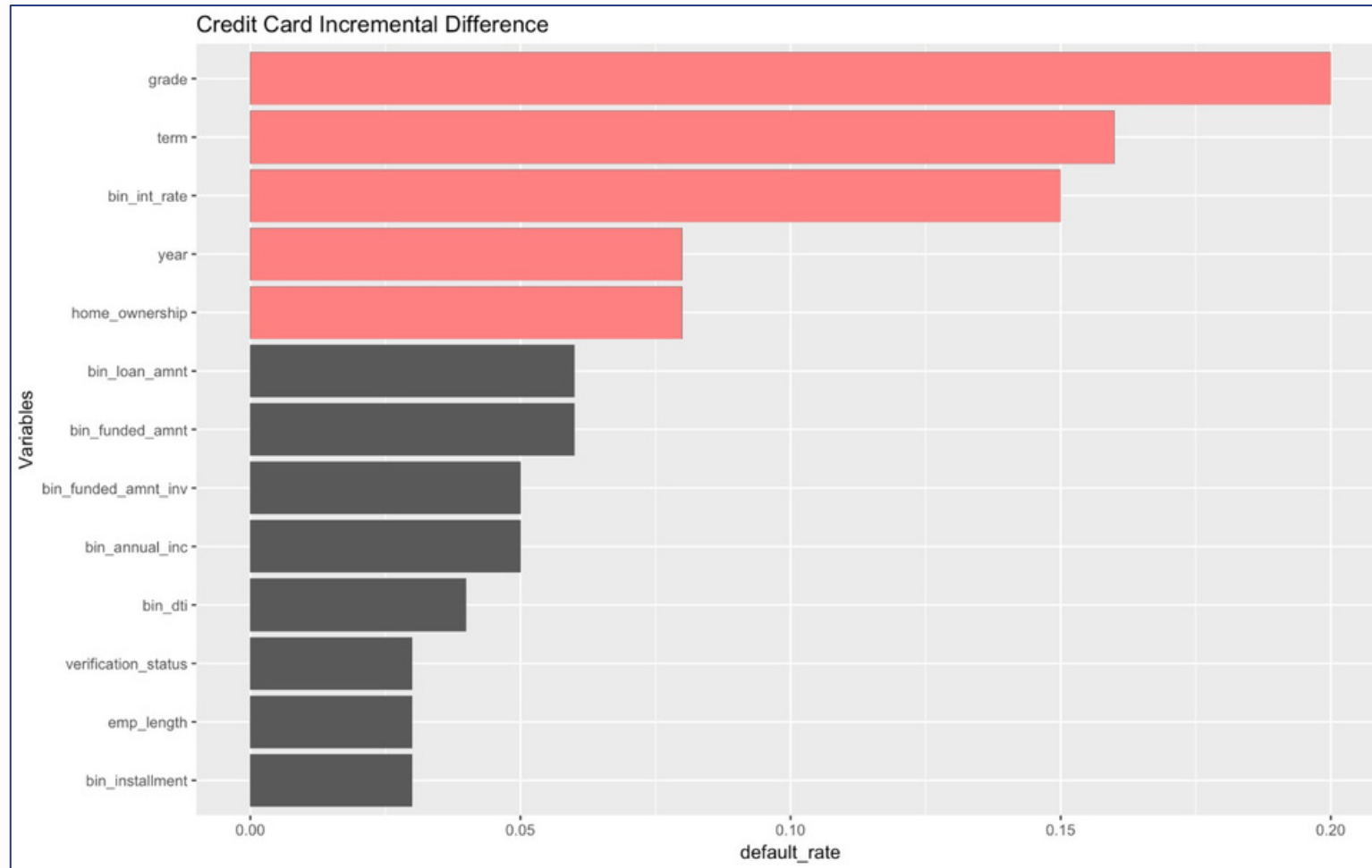


Average Interest Rate in top-4 products

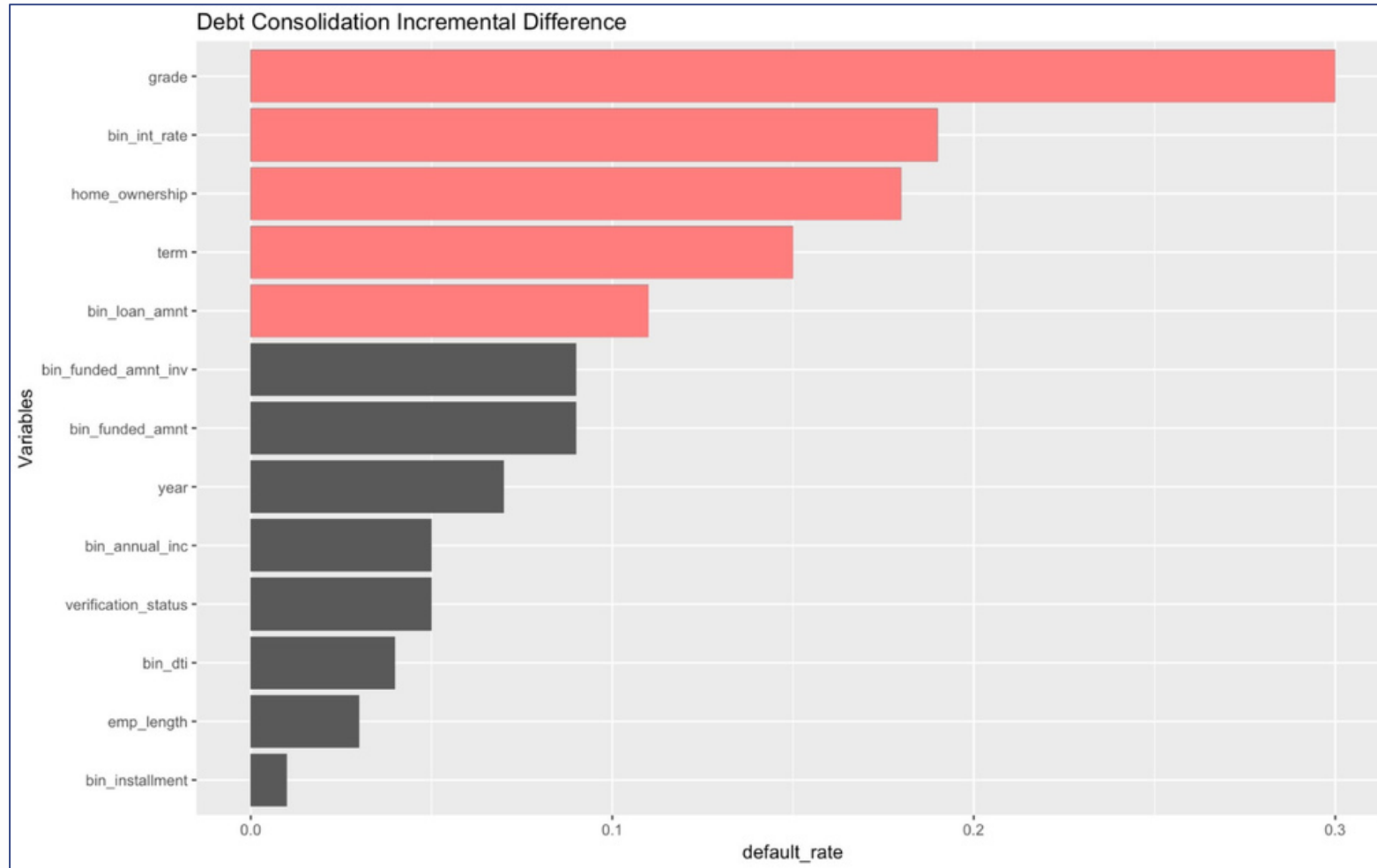
Credit Card	Debt Consolidation	Home improvement	Major purchase
11.62%	12.40%	11.29%	10.80%



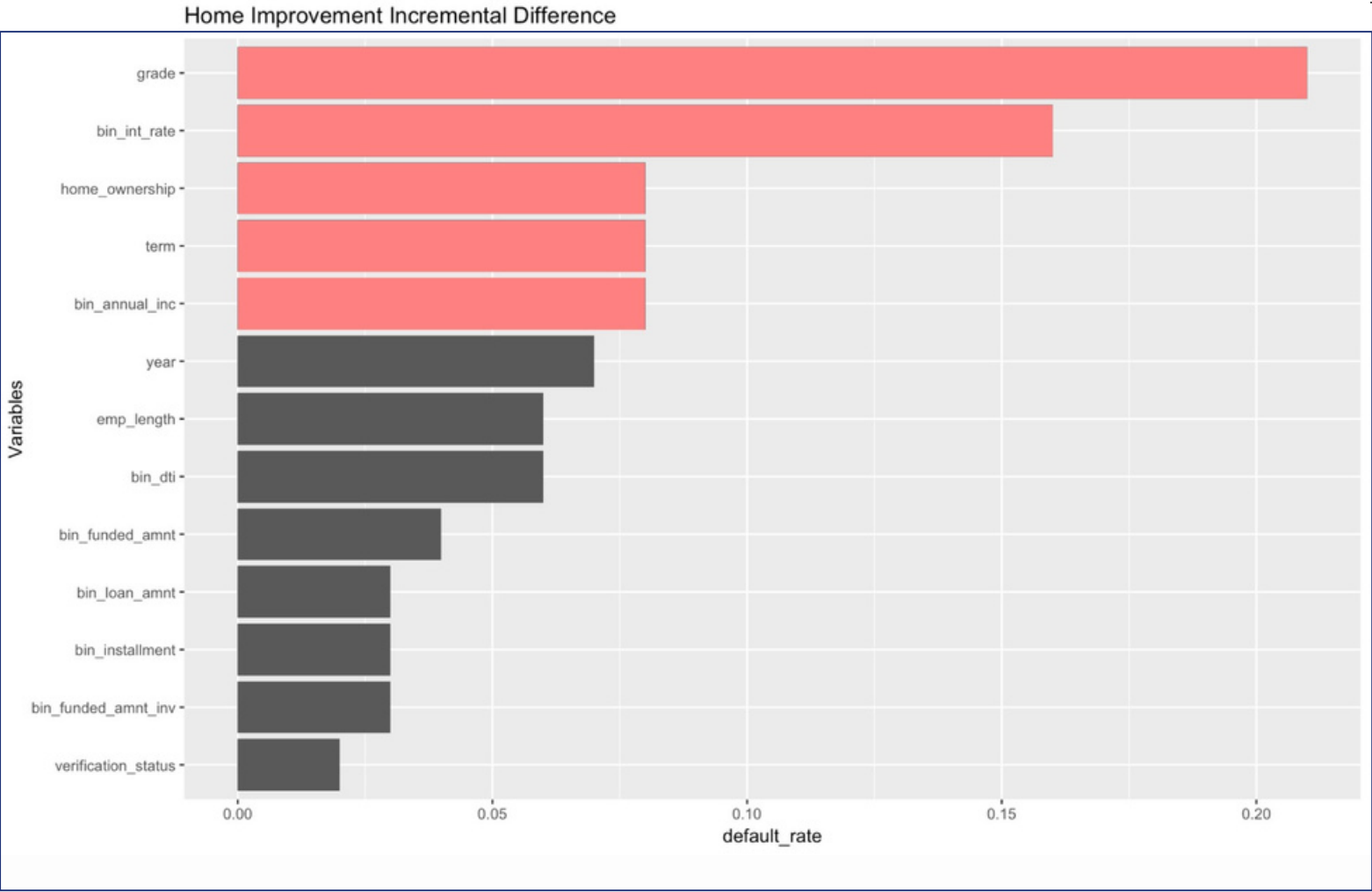
Important Variables: Credit Card



Important Variables–Debt Consolidation



Important Variables -Home Improvement



Important Variables–Major Purchase

