

The background of the slide is a dark purple gradient. On the left side, there is a dense, abstract pattern of thin, light purple lines and small dots, resembling a network or a data visualization. These lines radiate from the left edge towards the center of the slide.

# LOAN PORTFOLIO ANALYSIS DASHBOARD

Presented by – Bhawna Bhoyar

# Business Requirement

The bank aims to monitor and manage the loan portfolio effectively. To analyze loan distribution, repayment status, customer demographics, and risk assessment for informed decision-making. The key objectives include:

**Credit Risk Management:** Understanding how loans are performing—how many are being repaid, how many are charged off, and what patterns exist.

**Customer Segmentation:** Knowing the profile of borrowers based on income, verification status, and home ownership helps in designing custom financial products.

**Operational Efficiency:** Identifying underperforming areas or customer types can help reduce non-performing assets (NPAs).

**Strategic Planning:** Identifying geographic and demographic patterns helps in regional targeting and demand forecasting.

This dashboard is designed for financial analysts, portfolio managers, and decision-makers to gain data-driven insights into customer behavior and loan repayment trends.

# KPI's Requirement

KPI	Value / Insight	Why It Matters
Total Customers	37,264	Shows customer base and growth
Total Loan Amount	\$420M	Measures financial exposure
Total Payments	\$482M	Indicates loan recovery performance
Verified Customer Loan Value	\$191M	Shows reliability and need to promote verification
Not Verified Loan Value	\$134M	Indicates higher-risk group
Average Annual Income	\$69K	Helps assess loan repayment capacity
Loan Status Distribution	Fully Paid (81%), Charged Off (15%), Current (4%)	Reveals repayment success and risk exposure
State-wise Loan Amount	CA (\$75M), NY (\$41M), TX (\$30M), etc.	Highlights top-performing states
Year-wise Loan Trend	\$2M (2007) → \$254M (2011)	Demonstrates growth and loan demand
Month-wise Payment Status	Increasing fully paid loans over time	Useful for EMI behavior trends

# Insights & Interpretations

## State-wise Trends

- California, New York, and Texas contribute the most to loan disbursements.
- Lower penetration in states like Virginia and Illinois signals opportunity or risk concern.

## Year & Month-wise Trends

- Yearly data shows exponential loan demand growth, especially after 2009.
- Month-wise status indicates improving repayment behavior — more fully paid loans observed in recent months.

## Verification Insights

- Verified customers account for a large portion (\$191M) of loan value.
- Promoting verification could reduce charge-offs and improve portfolio quality.

## Home Ownership Patterns

- In 2011: Mortgage (23.2M) and Renters (21.6M) dominate the portfolio.
- Customers who own homes show better repayment behavior compared to renters.

## Sub-grade Loan Distribution

- Grades A1–A5 show strong balances and generally lower risk.
- Grades C–E indicate rising revolving balances — signals of higher default risk.



# Loan Portfolio Analytics Dashboard

Interactive financial insights and portfolio management

Year

All

Grade

All

Loan Status

All

37264

Total Customers

\$ 482M

Total Payment

420M

Total Loan Amount

191M

Amt of Verified Person

134M

Amt of not Verified P...

69K

Avg Annual Income

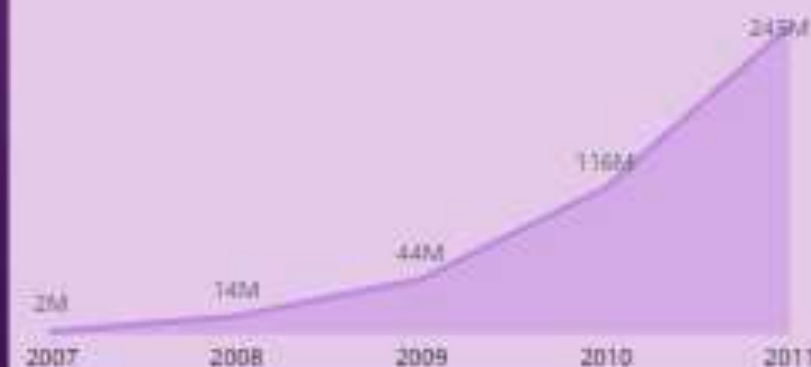
## Loan Amount State wise



## Loan Amnt & Status

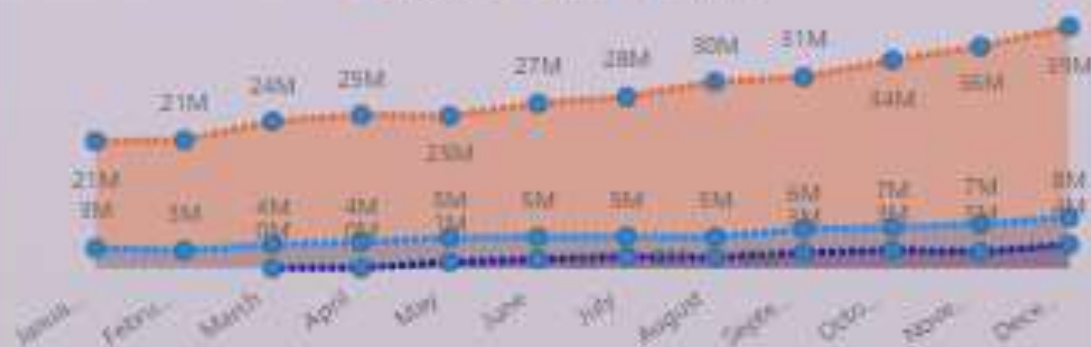


## Loan Amnt per Year

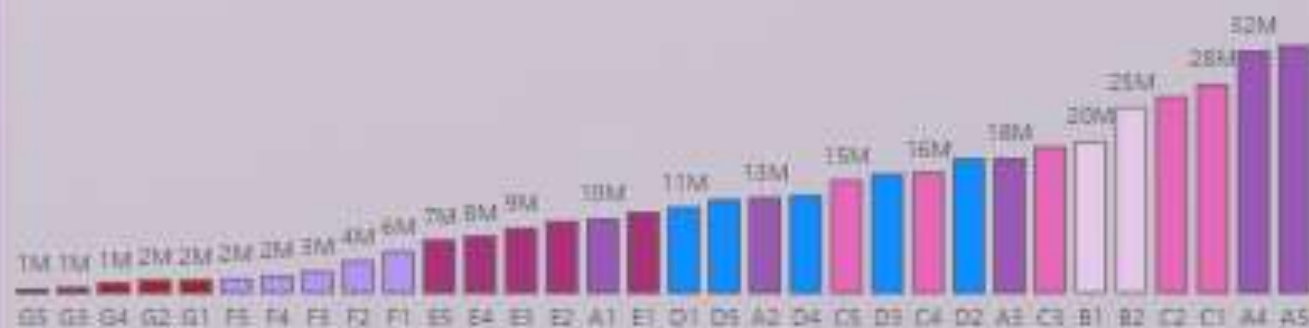


## Month Wise Status

Charged Off Current Fully Paid



## Sum of revol\_bal by sub\_grade and grade



37264

Total Custo...

482M

Total Payment

420M

Total Loan A...

191M

Amt of Verifi...

134M

Amt of not V...

69K

Avg Annual I...









Year

All

Loan Status

All

## Home Ownership VS Last Payment Date Stats

Year	MORTGAGE	NONE	OTHER	OWN	RENT
 2008	544625			39875	694700
 2009	2368925		123800	364775	2451600
 2010					
 Qtr 1	1055250		43000	187025	1380475
 Qtr 2	1490175		30050	212150	1310375
 Qtr 3	2225225		22800	386050	2051450
 Qtr 4	2716125		73600	483575	2961050
 2011	23247075	10000	372875	3496775	21618750

## Recommendations:

- Target High-Performing States: Focus marketing or expansion efforts on high-loan-value states like California and New York.
- Verify More Borrowers: Verified customers show significant loan amounts—promoting verification may reduce risk.
- Watch Loan Grades: Sub-grades like A5 and B1-B5 have high revolving balances review risk exposure.
- Encourage Early Payments: Use month-wise trends to offer incentives for early or on-time payments.
- Monitor High-Rent Borrowers: Renters show high volumes in loan counts—consider their risk profile before approval.
- Focus on Fully Paid Segment: 81% fully paid is a strength. Learn customer characteristics from this segment for future targeting.

## Conclusion

The Loan Analysis successfully provides a data-driven view of loan performance, empowering financial decision-makers to:

- Optimize lending strategies
- Reduce risk through better verification and segmentation
- Boost repayment rates with customer insights
- Expand in high-performing regions
- With 81% of loans fully paid and key customer behaviors clearly visualized, the organization is on a strong foundation but must continue to enhance risk monitoring, especially among non-verified and rental segments



Thank  
you

