



**BANK LOAN  
DASHBOARD  
PROJECT**



*Power BI*

**Made By  
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# PROBLEM STATEMENT

## DASHBOARD 1: SUMMARY

### Key Performance Indicators (KPIs) Requirements:

- 1. Total Loan Applications:** We need to calculate the total number of loan applications received during a specified period. Additionally, it is essential to monitor the Month-to-Date (MTD) Loan Applications and track changes Month-over-Month (MoM).
- 2. Total Funded Amount:** Understanding the total amount of funds disbursed as loans is crucial. We also want to keep an eye on the MTD Total Funded Amount and analyse the Month-over-Month (MoM) changes in this metric.
- 3. Total Amount Received:** Tracking the total amount received from borrowers is essential for assessing the bank's cash flow and loan repayment. We should analyse the Month-to-Date (MTD) Total Amount Received and observe the Month-over-Month (MoM) changes.
- 4. Average Interest Rate:** Calculating the average interest rate across all loans, MTD, and monitoring the Month-over-Month (MoM) variations in interest rates will provide insights into our lending portfolio's overall cost.
- 5. Average Debt-to-Income Ratio (DTI):** Evaluating the average DTI for our borrowers helps us gauge their financial health. We need to compute the average DTI for all loans, MTD, and track Month-over-Month (MoM) fluctuations.

# PROBLEM STATEMENT

## DASHBOARD 1: SUMMARY

### Good Loan v Bad Loan KPI's

#### Good Loan:

- 1. Good Loan Application Percentage
- 2. Good Loan Applications
- 3. Good Loan Funded Amount
- 4. Good Loan Total Received Amount

#### Bad Loan

- 1. Bad Loan Application Percentage
- 2. Bad Loan Applications
- 3. Bad Loan Funded Amount
- 4. Bad Loan Total Received Amount

### Loan Status Grid View

In order to gain a comprehensive overview of our lending operations and monitor the performance of loans, we aim to create a grid view report categorized by 'Loan Status.' By providing insights into metrics such as 'Total Loan Applications,' 'Total Funded Amount,' 'Total Amount Received,' 'Month-to-Date (MTD) Funded Amount,' 'MTD Amount Received,' 'Average Interest Rate,' and 'Average Debt-to-Income Ratio (DTI),' this grid view will empower us to make data-driven decisions and assess the health of our loan portfolio.

# PROBLEM STATEMENT

## DASHBOARD 2: OVERVIEW

### CHARTS

1. **Monthly Trends by Issue Date (Line Chart):** To identify seasonality and long-term trends in lending activities
2. **Regional Analysis by State (Filled Map):** To identify regions with significant lending activity and assess regional disparities
3. **Loan Term Analysis (Donut Chart):** To allow the client to understand the distribution of loans across various term lengths.
4. **Employee Length Analysis (Bar Chart):** How lending metrics are distributed among borrowers with different employment lengths, helping us assess the impact of employment history on loan applications.
5. **Loan Purpose Breakdown (Bar Chart):** Will provide a visual breakdown of loan metrics based on the stated purposes of loans, aiding in the understanding of the primary reasons borrowers seek financing.
6. **Home Ownership Analysis (Tree Map):** For a hierarchical view of how home ownership impacts loan applications and disbursements.

**Metrics to be shown: 'Total Loan Applications,' 'Total Funded Amount,' and 'Total Amount Received'**

# PROBLEM STATEMENT

## DASHBOARD 3: DETAILS

### GRID

Need for a comprehensive 'Details Dashboard' that provides a consolidated view of all the essential information within our loan data. This Details Dashboard aims to offer a holistic snapshot of key loan-related metrics and data points, enabling users to access critical information efficiently.

### *Objective:*

*The primary objective of the Details Dashboard is to provide a comprehensive and user-friendly interface for accessing vital loan data. It will serve as a one-stop solution for users seeking detailed insights into our loan portfolio, borrower profiles, and loan performance.*

# BANK LOAN REPORT

## Summary



Summary

Overview

Details

State

All

Grade

All

Purpose

All

Total Loan Applications

38.6K

MTD

4.3K

MoM

6.9%

Total Funded Amount

\$435.8M

MTD

\$54.0M

MoM

13.0%

Total Amount Received

\$473.1M

MTD

\$58.1M

MoM

15.8%

Avg Interest Rate

12.0%

MTD

12.4%

MoM

3.5%

Avg DTI

13.3%

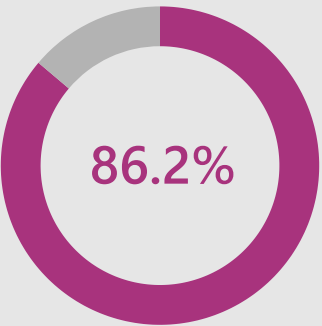
MTD

13.7%

MoM

2.7%

### GOOD LOAN ISSUED



33K

Good Loan Applications

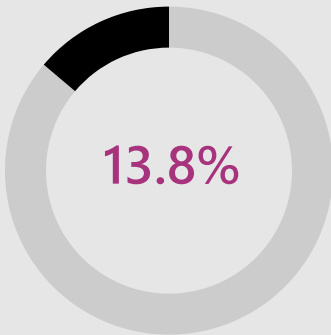
\$370.2M

Good Loan Funded Amount

\$435.8M

Good Loan Amount Received

### BAD LOAN ISSUED



5K

Bad Loan Applications

\$65.5M

Bad Loan Funded Amount

\$37.3M

Bad Loan Amount Received

### LOAN STATUS

loan_status	Total Loan Applications	Total Funded Amount	Total Amount Received	MTD Total Amount Received	Average Interest Rate	Avg DTI
Charged Off	5,333	\$6,55,32,225	\$3,72,84,763	\$53,24,211	13.88%	14.00%
Current	1,098	\$1,88,66,500	\$2,41,99,914	\$49,34,318	15.10%	14.72%
Fully Paid	32,145	\$35,13,58,350	\$41,15,86,256	\$4,78,15,851	11.64%	13.17%
Grand Total	38,576	\$43,57,57,075	\$47,30,70,933	\$5,80,74,380	12.05%	13.33%

# BANK LOAN REPORT

## Overview



Summary

Overview

Details

### Select Measure

Total Amount Received

### State

All

### Grade

All

### Good vs Bad Loan

All

Total Loan Applications

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MoM

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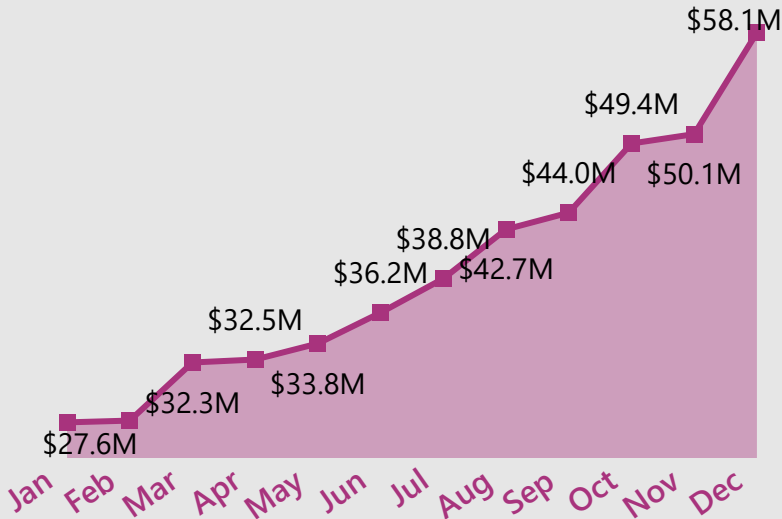
MTD

13.7%

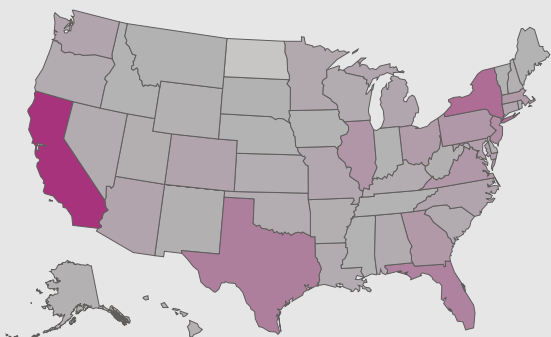
MoM

2.7%

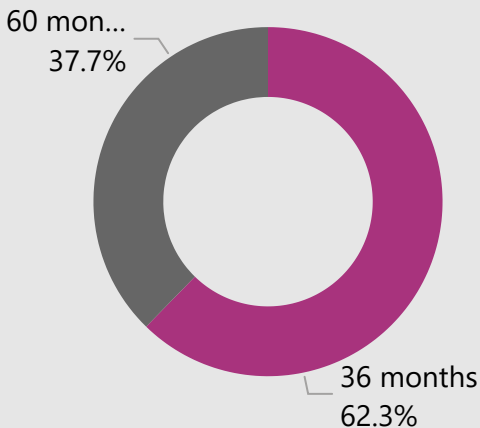
Total Amount Received by month



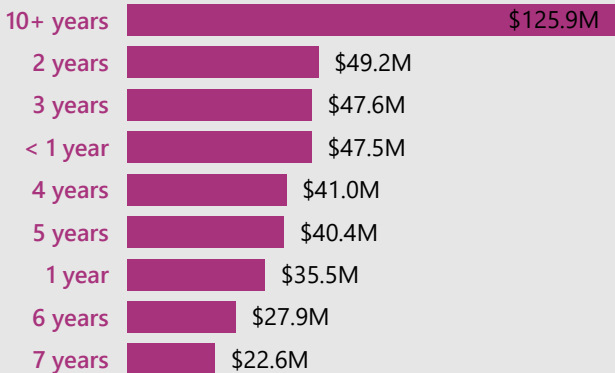
State



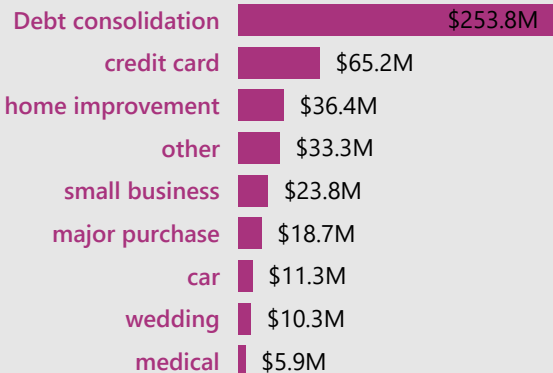
Total Amount Received by term



Total Loan Applications by emp length



Total Amount Received by purpose



Total Amount Received by home ownership

MORTGAGE

\$238.47M

RENT

\$201.82M

# BANK LOAN REPORT

Details



Summary

Overview

Details

State

All

Grade

All

Good vs Bad Loan

All

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MoM

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id	purpose	home_ownership	grade	sub grade	issue date	Total Funded Amount	Int rate	installment	Total Amount Received
54734	Debt consolidation	RENT	B	B4	09 August 2021	\$25,000	0.12	829.10	\$29,330
55742	credit card	RENT	B	B5	08 May 2021	\$7,000	0.11	228.22	\$8,216
57245	Debt consolidation	OWN	C	C2	10 March 2021	\$1,200	0.13	40.50	\$1,458
57416	Debt consolidation	RENT	C	C3	09 November 2021	\$10,800	0.14	366.86	\$13,208
58915	Debt consolidation	RENT	B	B3	08 April 2021	\$7,500	0.10	162.34	\$5,844
59006	credit card	MORTGAGE	C	C5	09 September 2021	\$3,000	0.14	102.92	\$3,705
61390	credit card	MORTGAGE	A	A5	10 February 2021	\$4,000	0.08	125.13	\$4,452
61419	Debt consolidation	RENT	D	D2	10 February 2021	\$5,600	0.15	194.02	\$6,475
62102	Debt consolidation	RENT	B	B1	10 April 2021	\$3,200	0.10	103.08	\$3,414
65426	car	MORTGAGE	B	B1	09 August 2021	\$4,000	0.11	131.22	\$2,755
65640	home improvement	MORTGAGE	C	C2	08 May 2021	\$5,000	0.11	87.19	\$3,154
66431	Debt consolidation	RENT	B	B5	09 February 2021	\$2,525	0.12	84.12	\$3,028
66749	Debt consolidation	MORTGAGE	C	C4	08 December 2021	\$10,625	0.13	360.43	\$12,975
66943	Debt consolidation	RENT	B	B4	10 August 2021	\$2,800	0.11	61.57	\$3,144
66964	Debt consolidation	MORTGAGE	D	D3	08 June 2021	\$7,500	0.13	253.58	\$9,129
67503	Debt consolidation	MORTGAGE	A	A4	09 October 2021	\$10,000	0.09	316.11	\$11,280
68163	small business	MORTGAGE	A	A3	10 February 2021	\$3,000	0.07	92.82	\$3,342
68281	Debt consolidation	RENT	A	A5	08 March 2021	\$6,625	0.08	200.54	\$7,540