Power BI Project: Loan Analytics & Profitability Dashboard

Live Dashboard

View the interactive dashboard:

https://app.powerbi.com/view?r=eyJrIjoiZTRmNTRmMTUtZmIxNC00OTc1LTk0 NDUtZDM0ODIzYmZhOTI4IiwidCI6IjZhODgzMmRjLTUxNGQtNDAzZS05Nm VILWU1YWY4NzVIY2VjNiIsImMiOjZ9.and

For access or questions, contact: <u>istiak36@gmail.com</u>

Overview

This Power BI dashboard presents a sophisticated analytics solution for monitoring loan performance, assessing credit risk, and segmenting profitability in lending portfolios. With comprehensive, interactive visuals, business users and lending executives can quickly uncover drivers of risk, revenue, and trade outcomes. The platform guides smarter lending decisions, targeted risk management, and maximized profitability.

Features

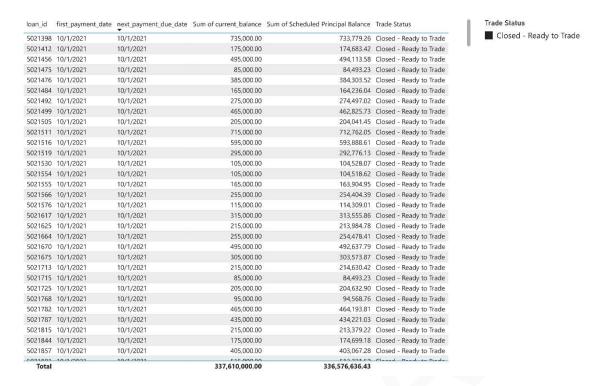
- Loan Performance Monitoring: Track portfolio KPIs, health, defaults, prepayments, and recoveries at a glance.
- Credit Score Impact: Analyze how applicant credit behavior and scores influence approval, performance, and risk.
- AI-Powered Key Influencers: Identify leading drivers of defaults, delinquencies, or profit with Power BI's AI analytics.

- **Profitability Segments:** Pinpoint most- and least-profitable segments across customer, region, amount, and vintage.
- Trade Execution Detail: Drill into loan pool trades, recoveries, loss ratios, and execution timing.

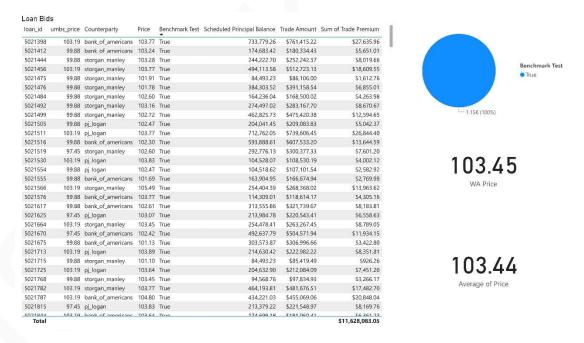
Dashboard Snapshots

oan Stat	tuses		Count of loan id by Trade Status				
oan_id d	closing_date	file_in_audit	file_audit_complete	file_sent_to_custodian	file_at_custodian	Trade Status	1
5021398 8	8/28/2021	9/2/2021	9/6/2021	9/8/2021	9/10/2021	Closed - Ready to Trade	
5021412	9/6/2021	9/8/2021	9/13/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
5021444 8	8/3/2021	8/10/2021	8/16/2021	8/16/2021	9/15/2021	Closed - Ready to Trade	
5021456	9/2/2021	9/8/2021	9/10/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
5021475	9/3/2021	9/7/2021	9/10/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
5021476	9/4/2021	9/8/2021	9/13/2021	9/14/2021	9/16/2021	Closed - Ready to Trade	
5021484 8	8/25/2021	8/31/2021	9/2/2021	9/3/2021	9/6/2021	Closed - Ready to Trade	
021492	9/1/2021	9/3/2021	9/6/2021	9/7/2021	9/9/2021	Closed - Ready to Trade	
5021499	9/2/2021	9/6/2021	9/8/2021	9/10/2021	9/13/2021	Closed - Ready to Trade	
5021505	9/3/2021	9/7/2021	9/9/2021	9/10/2021	9/13/2021	Closed - Ready to Trade	
5021511	9/2/2021	9/7/2021	9/9/2021	9/10/2021	9/13/2021	Closed - Ready to Trade	Closed - Read
021516	9/8/2021	9/13/2021	9/13/2021	9/14/2021	9/16/2021	Closed - Ready to Trade	1.15K (100%)
021519 8	8/24/2021	8/27/2021	8/30/2021	8/30/2021	9/1/2021	Closed - Ready to Trade	
021530 8	8/31/2021	9/2/2021	9/6/2021	9/6/2021	9/8/2021	Closed - Ready to Trade	
021554	9/7/2021	9/13/2021	9/15/2021	9/16/2021	9/20/2021	Closed - Ready to Trade	
021555	9/3/2021	9/6/2021	9/8/2021	9/10/2021	9/13/2021	Closed - Ready to Trade	
021566	9/4/2021	9/6/2021	9/8/2021	9/9/2021	9/13/2021	Closed - Ready to Trade	
5021576 8	8/23/2021	8/27/2021	8/30/2021	8/30/2021	9/1/2021	Closed - Ready to Trade	
5021617	9/6/2021	9/9/2021	9/13/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
021625	9/3/2021	9/8/2021	9/10/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
021664 8	8/26/2021	8/30/2021	8/30/2021	8/31/2021	9/2/2021	Closed - Ready to Trade	
021670	9/4/2021	9/7/2021	9/9/2021	9/10/2021	9/13/2021	Closed - Ready to Trade	
021675	9/4/2021	9/6/2021	9/10/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
021713 8	8/25/2021	8/30/2021	9/1/2021	9/2/2021	9/6/2021	Closed - Ready to Trade	
021715	9/7/2021	9/10/2021	9/13/2021	9/13/2021	9/15/2021	Closed - Ready to Trade	
021725	9/9/2021	9/13/2021	9/15/2021	9/16/2021	9/20/2021	Closed - Ready to Trade	
021768	9/1/2021	9/6/2021	9/9/2021	9/10/2021	9/13/2021	Closed - Ready to Trade	
021782	9/10/2021	9/13/2021	9/15/2021	9/16/2021	9/20/2021	Closed - Ready to Trade	
5021787 8		9/2/2021	9/7/2021	9/8/2021	9/10/2021	Closed - Ready to Trade	
5021815 8		8/30/2021	8/31/2021	9/1/2021	9/3/2021	Closed - Ready to Trade	

Comprehensive overview of lending KPIs: volume, default/loss rates, recovery, and aging—all filterable by cohort.

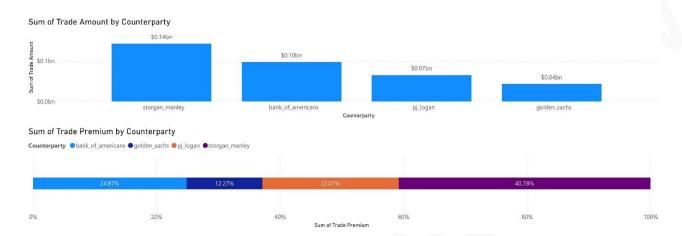


Correlation between credit scores, loan performance, and approval/decline decisioning.

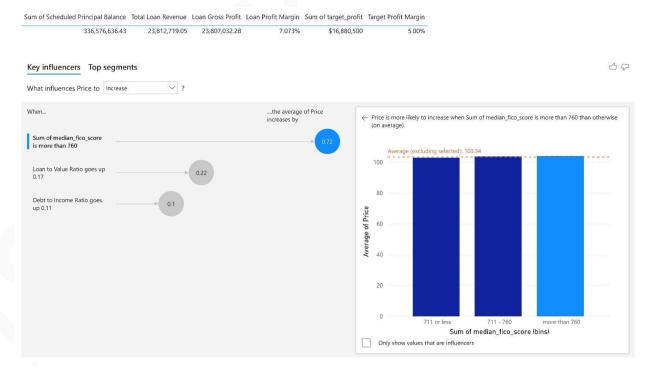


How factors such as applicant type, income range, and employment status drive performance/risk, as surfaced by AI.

Trade Execution	Detail					
Counterparty	Count of loan_id	Sum of Scheduled Principal Balance	WA Price	Sum of Trade Amount	Sum of Trade Premium	
storgan_manley	474	137,853,927.22	103.44	\$142,596,207.88	\$4,742,280.66	
bank_of_americans	323	94,405,740.13	103.06	\$97,298,166.06	\$2,892,425.93	
pj_logan	217	62,674,344.38	104.10	\$65,241,223.74	\$2,566,879.36	
golden_sachs	132	41,642,624.70	103.43	\$43,069,121.80	\$1,426,497.10	
Total	1146	336,576,636,43	103.45	\$348,204,719,48	\$11,628,083.05	



Compare segment profitability by slicing into loan type, purpose, vintage, or geography.



Detailed drilldowns into bulk sales/execution metrics for compliance, accounting, or strategy teams.

Key Insights

Credit score is a top predictor of loan performance and default risk.

AI-powered influencers highlight which applicant attributes drive profit or risk,

giving clear guidance for underwriting.

Segmenting lending segments by profitability uncovers hidden revenue drivers

and actionable risk exposures.

Trade execution and aging detail enables better planning and compliance

oversight for secondary market trades.

How to Use

1. Open the live dashboard for drilldowns, filtering, and "what-if" analysis.

2. Use dashboard images above for quick context or to showcase project impact in

your portfolio/web.

3. Guide underwriting, portfolio, and risk management actions with data-driven

segment insights.

About

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All data and visuals for demonstration and portfolio purposes only. Images are

located in the /images folder.