FinTech Case Study

Credit Risk Modelling for a leading SEA Loan Provider



222 Client Overview

The Client is a leading holding conglomerate that capitalizes on fintech, as well as the best emerging technologies in the market, to provide financial services to the under-served in South East Asia

Business Challenges

- There are two separate PDFs for each customer which needed to be merged which contains the following:
 - Loan related information of customer
 - Geographic details of each customer
- A customer may have taken multiple loans, which needed to be summarized at a row level using business logic

TINdium Solution

To predict if a loan was to be offered to a target customer, Indium leveraged the following:

- teX.ai, Indium's text analytics product, to extract customer related loans and geographic details at a row level since this information came from two separate PDFs.
- Custom built business logic to summarize the customer related information at a row level.
- Feature selection of variables to decide the best inputs for the machine learning algorithm.
- XGBoost supervised learning algorithm to validate andcategorize if it was "Good", "Risky" or "Bad" to offer loans to customers based on their past loan repayments.
- Intuitive Power BI dashboards to display the aggregated KPIs.

Business Impact

- The machine learning assisted solution helped increase the PULL THROUGH RATE by 40%
 - This in turn led to decrease in LOAN CYCLE TIME by 30%
 - The CUSTOMER ACQUISTION RATE went up by 25% in a span of just 3 months
- The APPLICATION APPROVAL RATE went up by 40%, as human biases were removed from the approval process.
 There was a 20% drop in CUSTOMER ACQUISTION COSTS, owing to the automated and streamlined process.
- The existing system was then improved to start sending personalized messages to target customers to provide seamless customer experience and improve customer loyalty.







