



RADAR Analytics for Retail Bank's Loan Defaulters Prediction with >RADAR Scoring Engine.

RADAR Scoring Engine is a retail credit scoring and decision solution that predicts the Loan customer behavioral and will provide the automated credit scores.

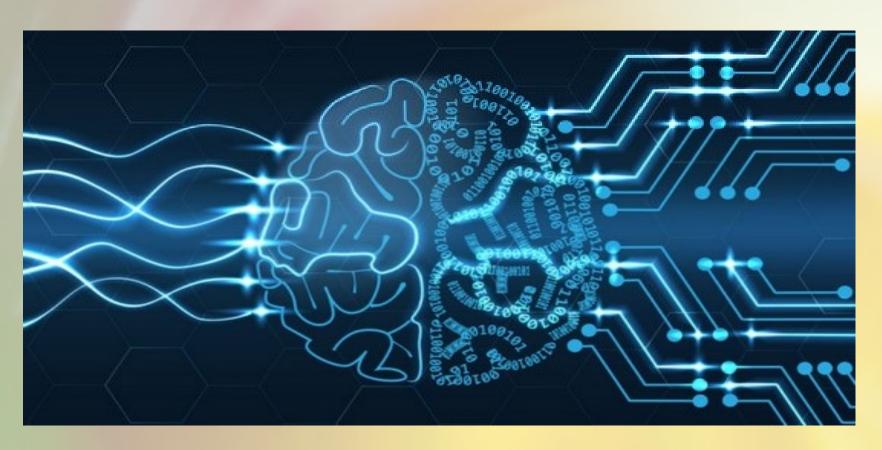
Key Futures : -

- Credit Risk Analysis and Prediction Modeling of Bank Loans.
- Predicting borrowers' chance of defaulting on credit loans.
- Accurate assessment of credit risk.
- Transparency & traceability in Loan recovery decisions.



Strengthen your predictive analysis with rich ML algorithm package

Create powerful prediction models with proven YPR Informatics-ML algorithms, no hard-coding necessary.

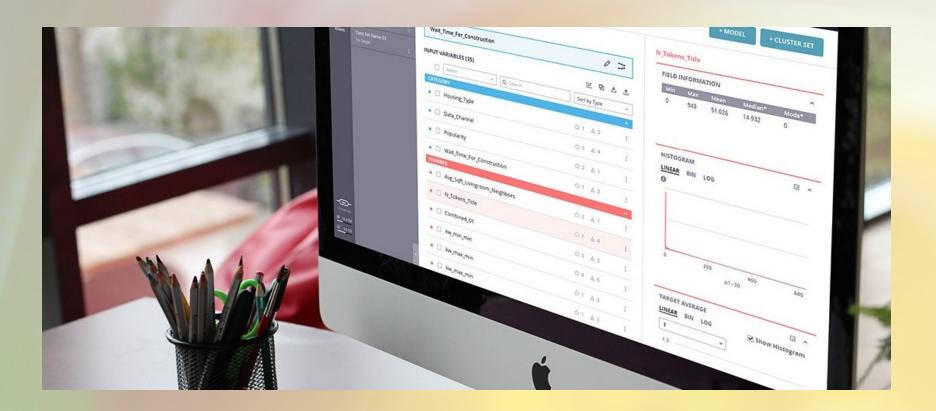


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Get optimal business rules through automatic clustering

Create a variety of business rules by discovering many complex patterns hidden within Big Data.





Solution Approach

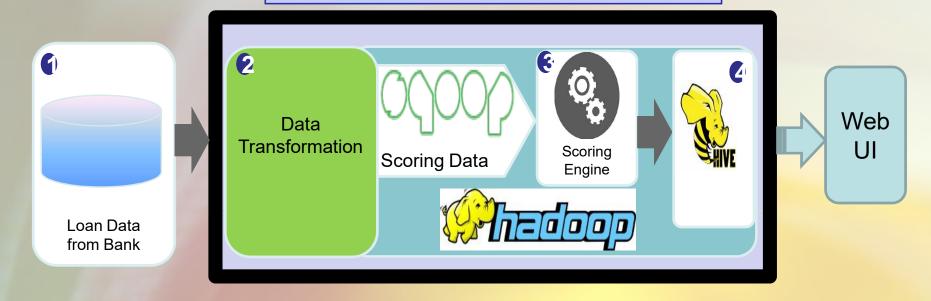
Business Objective	The objective of the project is to develop a credit scoring and decision solution that predicts the exiting Loan customer behavioral and will provide the automated credit scores.
Model Objective	The solution aims to deliver the following For Accounts in Bucket 1 (60 Days Delinquent) Propensity to move to Bucket 2 (90 Days Delinquent)
Approach Methodology	 For Accounts in Bucket 2 (90 days) to move to NPA Defining default for housing and non-housing loans Creating the data set for modeling Developing the model equation Validation and Scoring of the model Deployment of the application
Deliverables	Composite algorithms predicting the risk of a person defaulting on loan repayments shall be implemented for the Bank.

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Architecture and Data Flow Diagram



- Loan data from bank (preferably in tab delimited format) are used to arrive at the fields required for the scoring algorithm
- Raw Data is scheduled to extract and Transform as scoring data
- Our proprietary scoring engine score the data using our Algorithms
- The scored records will be made available for the bank

Architectural Components



Hardware:

Hadoop cluster with at least 3 systems each having the following configuration:

- Dual Quad core CPU with 32GB RAM
- 2TB disk drive
- Bonded Gigabit Ethernet
- Running Ubuntu Linux operating system 14.x

Software:

Following open-source software is to be available on the systems:

- ❖ Hadoop 2.x version with its components Pig, Hive, Sqoop and Oozie
- ❖ Java JDK 1.8
- Eclipse IDE Mars or above version
- Tomcat 8 server on one of the systems for interactive Web UI





RADAR Scoring Engine is a modular and flexible platform to give your bank a significant competitive advantage through superior credit risk scoring and automated loan origination.

- ❖ Accurate assessment of credit risk Centralized administration of credit rules & policies across various channels.
- Transparency & traceability in recovery decisions.
- Automated workflow process from prospect-to-customer, driving operational efficiency.
- Create cross-sell opportunities Instant decision on most retail products.
- Bring pricing in line with bank's risk tolerance.
- Increase customer satisfaction & reduce attrition.
- Improve portfolio profitability and shareholder returns.

About us



YPR Informatics Pvt Ltd.,

"Young Professionals Racing" on Informatics

YPR Informatics is one of the fastest growing information technology company – built on very strong systems integration, database design, development and administration and application development skills.

Vision:

To become the preferred Information Management solutions partner for our clients by delivering best of class solutions and services.

Values:

Improving our client's business performance, creating long-term relationships and focusing on execution excellence.

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