Smart Lender - Applicant Credibility Prediction For Loan Approval

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Overview

One of the most important factors which affect our country's economy and financial condition is the credit system governed by the banks. The process of bank credit risk evaluation is recognized at banks across the globe. "As we know credit risk evaluation is very crucial, there is a variety of techniques are used for risk level calculation. In addition, credit risk is one of the main functions of the banking community.

Goals

1. This feature will enable the banks to predict accurately if the customer can repay the loan on time or not.
2. To provide a loan to a deserving applicant out of all applicants.

Specifications

HARDWARE SPECIFICATION

The hardware requirements may serve as the basis for a contract for the implementation of the system and should therefore be a complete engineer as the starting point for the system design.
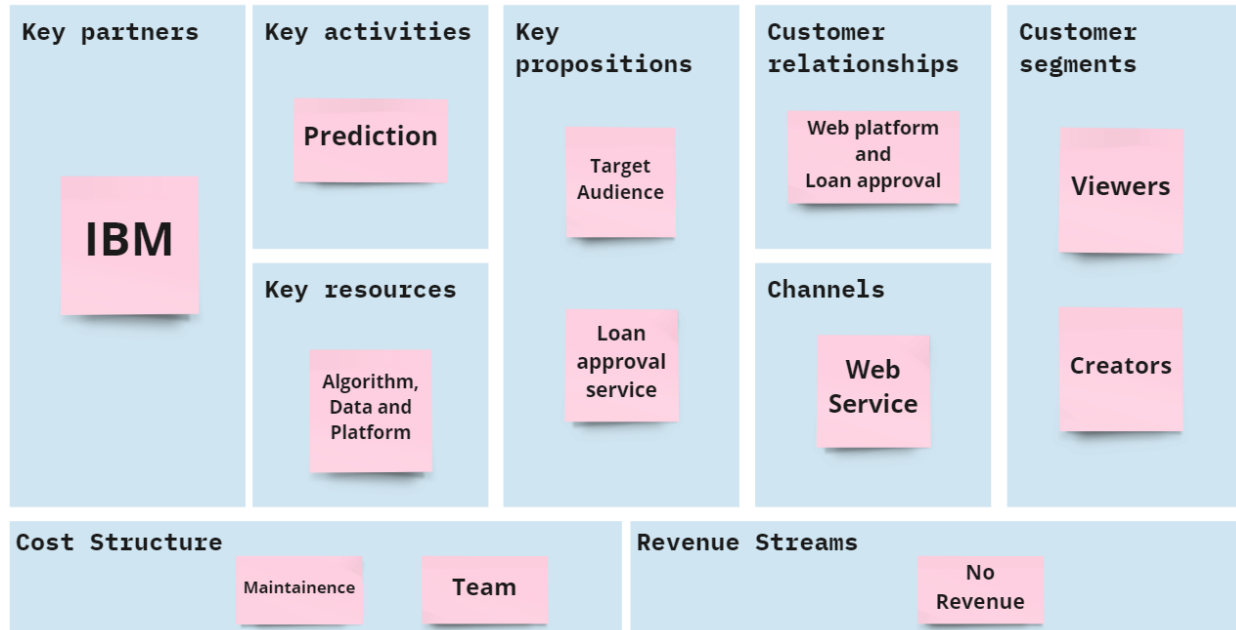
Ram   : 6GB Ram or more

Processor   : Any Processor

GPU   : 6GB or more

Hard Disk   : 10GB or more

Speed   : 1.4GHZ or more

SOFTWARE SPECIFICATION

The software requirements give detailed description of the system and all its features.

➜ Python

➜ Keras

➜ Tensorflow

➜ Numpy

➜ Pandas 2

➜ Visual studio code

➜ Python-Flask

➜ IBM cloud

BUSINESS MODEL

Key partners	Key activities	Key propositions	Customer relationships	Customer segments
IBM	**Prediction**	**Target Audience**	**Web platform and Loan approval**	**Viewers**
	Key resources		**Channels**	
	Algorithm, Data and Platform	**Loan approval service**	**Web Service**	**Creators**

Cost Structure	Revenue Streams
Maintainence　**Team**	**No Revenue**

SOLUTION

➜ Data Collection

➜ Visualizing And Analyzing The Data

➜ Data Pre-Processing

➜ Model Building using Decision Tree Model Decision Tree Model, Random Forest Model, KNN Model.

➜ Application Building using Html, Python Code

CONCLUSION

The banks definitely may reduce their loss by reducing their non-profit assets, so that recovery of approved loans can take place without any loss and it can play as the contributing parameter of the bank statement. This makes the study of this loan approval prediction