NAME OF THE PROJECT

MICRO_CREDIT_DEFAULTER

Submitted by:

YOUR NAME

LODEM RAKESH

ACKNOWLEDGMENT

This includes mentioning of all the references, research papers, data sources, professionals and other resources that helped you and guided you in completion of the project.

SELF

INTRODUCTION

- Business Problem Framing

  Describe the business problem and how this problem can be related to the real world.

  THIS PROBLEM HELPS TO MANY PEOPLE WHO ARE INTESTED IN TAKING LOANS AND WE WOULD KNOW THE STATS OF THE PEOPLE WHO ARE PAYING THE LOAN WITHIN 5 DAYS.

- Conceptual Background of the Domain Problem

  Describe the domain related concepts that you think will be useful for better understanding of the project.

  SOME KNOWLEDGE ON THE FINANCE AND BANKING

- Review of Literature

  This is a comprehensive summary of the research done on the topic. The review should enumerate, describe, summarize, evaluate and clarify the research done.

  NEWS PAPER ARTICLE

- Motivation for the Problem Undertaken

  Describe your objective behind to make this project, this domain and what is the motivation behind.

Analytical Problem Framing

- Mathematical/ Analytical Modeling of the Problem

  Describe the mathematical, statistical and analytics modelling done during this project along with the proper justification.

- Data Sources and their formats

  What are the data sources, their origins, their formats and other details that you find necessary? They can be described here. Provide a proper data description. You can also add a snapshot of the data.

  FLIP_ROBO_TECHNOLOGIES

- Data Preprocessing Done

  What were the steps followed for the cleaning of the data? What were the assumptions done and what were the next actions steps over that?

  IQR METHOD TO REMOVE OUTLIERS

  IMPUTE

  ORDINAL_ENCODING

- Data Inputs- Logic- Output Relationships

Describe the relationship behind the data input, its format, the logic in between and the output. Describe how the input affects the output.

- State the set of assumptions (if any) related to the problem under consideration

  Here, you can describe any presumptions taken by you.

- Hardware and Software Requirements and Tools Used

  Listing down the hardware and software requirements along with the tools, libraries and packages used. Describe all the software tools used along with a detailed description of tasks done with those tools.

  NUMPY

  SEABORN

  MATPLOTLIB

  PANDAS

  SKLEARN

  IMBLEARN

Model/s Development and Evaluation

- Identification of possible problem-solving approaches (methods)

  Describe the approaches you followed, both statistical and analytical, for solving of this problem.

  REMOVING THE OULIERS

  DESCRIBE METHOD FOR STASTISTICS

  IMPUTATION

  NEAR_MISS

  STANDARDIZATION

- Testing of Identified Approaches (Algorithms)

  Listing down all the algorithms used for the training and testing.

  SVC

  KNEIGHBORS_ CLASSIFIER

  RANDOM _FOREST

  DECISION_TREE

  ADABOOST CLASSIFIER

  GRADIENT_BOOSTING _CLASSIFIER

- Run and Evaluate selected models

  Describe all the algorithms used along with the snapshot of their code and what were the results observed over different evaluation metrics.

- Key Metrics for success in solving problem under consideration

  What were the key metrics used along with justification for using it? You may also include statistical metrics used if any.

ACCUARCY_SCORE,CONFUSION_MATRIX,CROSS _VAL _SCORE

- Visualizations
-

  Mention all the plots made along with their pictures and what were the inferences and observations obtained from those. Describe them in detail.

  If different platforms were used, mention that as well.

  BOX_PLOT

  BAR_PLOT

  COUNT_PLOT

- Interpretation of the Results

  Give a summary of what results were interpreted from the visualizations, preprocessing and modelling.

  ACCURACY_SCORE OF 0.86

CONCLUSION

- Key Findings and Conclusions of the Study

  Describe the key findings, inferences, observations from the whole problem.

  86 PERCENTEGE OF PEOPLE WILL REPAY THE LOANS IN 5 DAYS

- Learning Outcomes of the Study in respect of Data Science

List down your learnings obtained about the power of visualization, data cleaning and various algorithms used. You can describe which algorithm works best in which situation and what challenges you faced while working on this project and how did you overcome that.

- Limitations of this work and Scope for Future Work

  What are the limitations of this solution provided, the future scope? What all steps/techniques can be followed to further extend this study and improve the results.