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Personal Loan Campaign - Problem Statement

Submission type : File Upload

Due Date : Apr 06, 12:00 AM MDT

Total Marks : 60

Available from : Feb 29, 7:30 AM

Your Marks : 60/60

Description

Criteria

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Scoring guide (Rubric) - Personal Loan Campaign Rubric

Evaluated

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Define the problem and perform
an Exploratory Data Analysis

- Problem definition, questions to be answered - Data background and contents - Univariate analysis
 Bivariate analysis - Key
- Bivariate analysis Key
 meaningful observations for each
 of the plot

Areas of Achievement: 1) Providing a comprehensive definition of the problem with additional perspectives. 2) Observing the shape of the data, data types of various attributes, missing values, and presenting a statistical summary. 3) Conducting thorough univariate analysis, including generating histograms and box plots for key variables like 'age,' 'income,' 'mortgage,' 'experience,' and 'zip code.' 4) Executing impressive

bivariate and multivariate analysis, including creating a

Ratings

10/10

Points

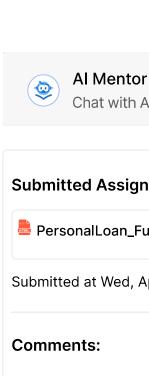
Criteria	Ratings	Points
	correlation matrix and exploring relationships between key variables such as 'personal loan vs. credit card,' 'personal loan vs. online account,' 'experience vs. income,' and 'age vs. income,' among others. 5) Providing insightful interpretations for each univariate and bivariate plot.	
Data pre-processing Prepare the data for analysis: - Missing Value Treatment (if needed) - Outlier Detection (treat, if needed) - Feature Engineering - Data preparation for modelling	Areas of Performance: 1) The handling of negative values in the Experience column was well executed. 2) The preprocessing of the ZIP code column was approached with care and diligence. 3) Dropping the ID column was a good decision, streamlining the dataset. 4) Recognition of outliers and the inclusion of informative comments regarding them was commendable.	6/6
Model building - Decision Tree - Define model evaluation criterion - Build the model and comment on the model performance Visualize the decision rules and important features	Areas of Accomplishment: 1) The construction of a decision tree model using Sklearn was well executed. 2) The commentary on the model's performance was commendable. 3) The visualization of the decision tree or extraction of rules from it was excellently done. 4) Identifying the significant features was a great achievement.	10/10
Model Performance Evaluation and Improvement	Areas of Achievement: 1) Demonstrated exceptional proficiency in conducting	20/20

presented plots and written

observations. 3) The

Business Recommendations OR -

Structure and flow - Well-



Chat with Al Mentor to get instant answers to your queries related to this assignment.



PersonalLoan_FullCode_DavidBingham.html

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Submitted at Wed, Apr 03

Hi David,

I appreciate your submission for the project, and I want to acknowledge your commitment and diligence in its completion. Your effort and dedication are clearly evident, resulting in a project that is executed at a commendable level. After a thorough review of each section, I have provided constructive comments to further enhance your work. Your observations are effectively communicated, the plots are presented with clarity, and your documentation of the model architecture is comprehensive. Your adept handling of the questions posed is also worthy of recognition. In summary, I would like to commend you for the praiseworthy quality of your work.

Thank you once again for your submission.

Best regards,

Moderator, Apr 07, 12:49 PM

+ Add comments

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