

# Project Name – Bank Loan Default Case

**Deadline - 15 Days**

## Problem Statement -

The loan default dataset has 8 variables and 850 records, each record being loan default status for each customer. Each Applicant was rated as “Defaulted” or “Not-Defaulted”. New applicants for loan application can also be evaluated on these 8 predictor variables and classified as a default or non-default based on predictor variables.

## Data Set:

1. [bank-loan.csv](#)

## Number of attributes:

Var. #	Variable	Description	Variable
	Name		Type
1.	Age	Age of each customer	Numerical
2.	Education	Education categories	Categorical
3	Employment	Employment status - Corresponds to job status and being converted to numeric format	Numerical
4	Address	Geographic area - Converted to numeric values	Numerical
5	Income	Gross Income of each customer	Numerical
6	debtinc	Individual's debt payment to his or her gross income	Numerical
7	creddebt	debt-to-credit ratio is a measurement of how much you owe your creditors as a percentage of your available credit (credit limits)	Numerical
8	othdebt	Any other debts	Numerical

**Missing Values:** Yes

## **Evaluation Basis**

The project will be evaluated on the following basis:

1. The process of building the model should move from simple to complex. This means its mandatory to implement multiple logistic regression before approaching any advance level algorithm such as Decision Tree/Random forest/Boosting etc.
2. Every model should be supported by reason of acceptance or rejection. Special emphasis on the reasons why the student has picked/dropped an algorithm.
3. The student should explain each and every terminology of Confusion Matrix.

Along with, student should come up with Precision-Recall curve/ROC-AUC curve/Gain & Lift charts to prove model stability

4. The student should revise the concepts before starting the project work.
  5. The student should be confident enough to explain every concept that is written in the project report.
  6. The questions during the mock sessions would not limit to project. Any topic that is covered in the syllabus can be asked during the mock session.
  7. If student unable to explain the project report or during the session, it appears that student has copied the solution then zero marks will be given to the student.
  8. The code should be written keeping in mind the code file can be run from DOS prompt.
  9. The instructions to run the code file should be submitted with the project report.
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## **Deliverables from Candidate**

- 1) Code written in both R and Python.
- 2) Comprehensive Project Report.
- 3) Instruction to deploy and run code.

**Always remember these evaluation bases, and your deadline. And your aim is to meet the deadline.**

**Warning** - Do not submit incomplete projects or projects that are not running. They will result in a negative skill score. Also, you are not allowed to seek help from a discussion board or any individual at all. Taking such help will be considered plagiarism and will violate the terms and conditions associated with project stage on edvisor.com.

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