ML-1 Mini Project

Problem Statement:

I am working as a data scientist in a global finance company. Over the years, the company has collected basic bank details and gathered a lot of credit-related information. The management wants to build an intelligent system to segregate the people into credit score brackets to reduce the manual efforts.

Task:

Given a person's credit-related information, build a machine learning model that can classify the credit score.

Dataset:

https://www.kaggle.com/datasets/parisrohan/credit-score-classification

Attributes (27):

1. ID
2. Customer_ID
3. Month
4. Name
5. Age
6. SSN (Social Security Number)
7. Occupation
8. Annual_Income
9. Monthly_Inhand_Salary
10. Num_Bank_Accounts
11. Num_Credit_Card
12. Interest_Rate
13. Num_of_Loan
14. Type_of_Loan
15. Delay_from_due_date
16. Num_of_Delayed_Payment
17. Changed_Credit_Limit
18. Num_Credit_Inquiries
19. Credit_Mix
20. Outstanding_Debt
21. Credit_Utilization_Ratio
22. Credit_History_Age

23. Payment_of_Min_Amount
24. Total_EMI_per_month
25. Amount_invested_monthly
26. Payment_Behaviour
27. Monthly_Balance

Class Labels:

1. Good
2. Standard
3. Poor

Source of dataset:

Kaggle

Why this data will be suitable for solving this problem?

- **What is a credit score?**

  A credit score is a prediction of your credit behaviour, such as how likely you are to pay a loan back on time, based on information from your credit reports.

- **Factors that are typically considered by credit scoring models include:**
    o Your bill-paying history.
    o Your current unpaid debt.
    o The number and type of loan accounts you have.
    o How long you have had your loan accounts open.
    o How much of your available credit you are using.
    o New applications for credit.
    o Whether you have had a debt sent to collection, a foreclosure, or a bankruptcy, and how long ago.

Since, most these factors are considered in above mentioned dataset, therefore, the dataset mentioned above is suitable for solving given problem.