Project\_1 Topic:

**How Debt Impacts A Person's Life on Average**

<https://www.kaggle.com/datasets/prakashraushan/loan-dataset>

Question:

1. Hypothesis: the debt will affect middle-income population the most

(20,000 – 50,000) middle class 🡪 check if the interest rate rise, what’s the rate of loan approved? (if rejected, then it’s affected) otherwise no direct impact.

1. We want to find out the relation between the amount of loan with customer income ?
2. Calculate the average (mean, loan) 🡪 spending? In what purpose?
3. What do your results suggest about the time value of money? (time-series finding?, compare the period of loan and how will this impact the borrower?)
4. home ownership status affect the likelihood of loan default.
5. How does employment duration influence loan approval
6. Are younger customers more likely to default on loans?
7. What is the impact of historical defaults on current loan status?

Bonus:

Examine:

1: Different grades customers will get correspond loan grade over time (our assumption) 🡪 analyse is this true?

2: Linear regression:

Predict the age of borrowers and the amount of the loan over time.