

# Business Intelligence Project Description 2024

## IS Department

### (Kiva loans Dataset)

### Submission:-

Please submit your code and report (including screenshot of code and the relevant figures) **note that** this project report should be in a presentation format (i.e., around 20 slides/PPT/PPTX) and code should be in a python file format (.py or .ipynb)

- Presentation should include Agenda, Introduction, Conclusion, etc.
- Each group member should spend **equal time and effort**.
- Project delivery date & discussion will be on the practical exam date.

### Dataset Description:-

We aim to analyze a dataset containing information about loans provided by a Kiva organization. The dataset consists of various attributes related to each loan.

Download Dataset: [Kiva Loans](#)

The dataset contains the following columns

1. id: **Unique identifier for each loan**.
2. Funded\_amount: The amount of money funded for the loan. **approved**
3. Loan\_amount: The total amount of money requested for the loan **requested**
4. Sector: The sector for which the loan is intended (e.g., **Food, Transportation**).
5. Country: The country where the loan is being provided.
6. Partner\_id: Identifier for the partner organization facilitating the loan.
7. Term\_in\_months: The term of the loan in months.
8. **Lender**\_count: The number of lenders contributing to the loan.
9. **Borrower**\_genders: Genders of the borrowers (e.g., female, male).
10. Repayment\_interval: The interval at which repayments are made (e.g., irregular, bullet).
11. Date: The date when the loan was initiated.

bankers

## **Project Description:-**

Use the methods and techniques studied in lectures and labs in order to help the Kiva Organization to get insights from dataset and answer these questions

- Which sectors receive the highest amount of funding, and how does this change over time?
- Is there a correlation between the number of lenders and the funded loan amount?
- Can we predict future loan amounts based on historical data?

## **Project implementation will include the following:-**

1. Understand the topic of the dataset and define your project objective.
2. Apply data exploration methods (i.e., summary statistics and visualization methods)
3. Apply **data cleaning** or transformation method (i.e., Handle missing values, remove duplicates, handle outliers, etc.)
4. **Visualize your dataset using PowerBI.**
5. Develop and evaluate a machine learning model to predict funded amount of the kiva.
6. **Making a time series for the funded amount of kiva. It is between column funded amount and Date.**