Exploratory Data Analysis (EDA) for Social Development Bank Loans Dataset

Abstract

This project was conducted for the T5 Data Science bootcamp, where I performed Exploratory Data Analysis on Social Development Bank Loans data. The goal of this project is understood clients behavior during 2020.

Design

Question/Problem statement: Lack of accurate analyzes of clients to know their behavior and organize financial allocations.

- What is the most type of funding requested by clients?

-What are the most months in which the funding has been disbursed to clients?

- Who of the genders is more in demand for funding?

Value for the bank: understand client's behavior and know the target groups.

Data

-About Social Development Bank Loans: the social funding products are designed to target an important community segment in the Saudi Arabia, the underprivileged citizens, offering them an opportunity to obtain simple and easy loans which enable them to meet necessary obligations.

- **Data Source:** data obtained from Saudi open data https://data.gov.sa/Data/ar/dataset/social-development-bank-loans-for-2020 .

- **Scope:**

Sample size: from Jan-2020 to May-2020.

Data size: 15 columns – 13914 rows.

Columns: (Client ID, Bank branch , Funding type , Social funding products, Client sector , Funding value , The value of installment , Funding disbursement date , Gender , age , Marital status , Special needs , Number of family ,Saving loan, Salary)

Algorithms

1- Problem understanding.

2- Data cleaning:

-Nall values

3- Managing Columns of Data.

4- EDA.

5- Virtualization.

Tools

Jupyter Notebook. Libraries, Pandas – Plotly. Functions: Groupby-Marge.

Communication

- Charts: