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BigData&DataAnalytics

Lesson Learning Data Science Python

Mauricio Carvajal
IOT ANALYTICS

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1. Introduction

The following project consists in an analysis with a full exploration of the Credit One data, that has been provided.

For this project the idea is to start using python and jupyter notebook, to perform a EDA (Exploratory Data Analysis Report). And the idea is to understand this data, and get business learnings in order to produce more accurate models of machine learning and data mining.

2. Potential business value

From the analysis, here are some of the summary of the potential business value, that the company can use to improve the situation

- Female have a tendency to have used more the credit, besides the level of education
- The not default payment next month value is 3 than bigger than the default
- Better clients are single youth Adults and married Adults
- Seniors have a tendency to have more amount of limit credit

All the conclusions from this analysis that can be potential business value are in the jupyter notebook.

3. Main Lessons

The main lessons for this report is the usage of python and jupyter notebook to do all the analysis, but more specifically these are the main lessons:

- Before create any model of machine learnings, is a must perform a EDA (Exploratory Data Analysis)
- Graphics are the best way to summary data,
- In python there are extremely good libraries for Data Visualization, for example:
 - Matplotlib
 - Seaborn
- Pandas library make very easy the data manipulation in python.
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4. Recommendations

In this section we discuss the possible recommendations that needs to be follow after the analysis create in this report. It's important to mention that this is an initial analysis.

- As initial analysis, still need to perform more detail analysis to provide a suggestion on how to improve the actual situation.

- To improve the situation is always have the rule that is not possible to control the habits on how the customers spend the money.
- The data is needed to be preprocess, and also discretized in order to have groups and can give better advice.