

**Prediction of credit card category**

**J. Max-Havel JACOB**

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Project Description:

The credit card approval is a long process, and when it happened the bank still has to determine what the limit of credit to start the client is. And when this process is doing by humans it takes time and it might be biased. This is what this project tend to address. A machine learning that is capable to determine based on variables such as: sex, status, dependents, annual income, annual expense, and house owned etc. in which category of credit card our client is available for. There are four categories: Bronze, Silver, Gold and Platinum.

A bronze credit card has a credit range lies between 500 and 1,000 $, a silver one range lies between 1,001 and 4,000$. Getting and gold credit card would means that your credit is more than 4000$ but less than 10,000. And platinum credit card are for exceptional clients with a credit superior to 10,000$.

The results of this project will firstly benefit the institution that will be able to accord a credit now based on machine decision than human ones. It will also be relevant for the clients who sometimes are afraid to get a credit or to update their actual credits.

The first source of data will be kaggle and if it’s not enough some fake profiles will be created using Faker, a python package.

Some of the goals of my analysis are:

* Determine what variables have the most impact on the category of credit card
* Study the correlation between the variables and which ones are more correlated to others.
* What variables has less impact on the category
* Etc.