For project 1

**<To predict loan status>**

**Business Objective:**

**To predict the impact of the incident raised by the customer.**

**Data Set Details:**

It’s not at all easy to get a loan from the bank. Getting a loan approved requires a complex mix of factors not the least of which is a steady income! So this ML project aims to create a model that will classify how much loan the user can obtain based on various factors such as the user’s marital status, income, education, employment prospects, number of dependents, etc. The dataset attached provides details about all these factors which can then be used to create an ML model that demonstrates the amount of loan that can be approved

**Acceptance criteria:**

1. Prepare data for model training i.e. removing outliers , filling null values (both for categorical as well as numerical values) , removing skewness
2. Find the variables which are co related and consider in building in your model and other feature engineering stuff if you can
3. Pay attention to balanced and imbalanced data. Resample unbalanced data
4. Use your own understanding for identifying the algorithms that you need to use. How ever since its mostly a binary kind of classification problem use algos related to that
5. Consider uni and multi variate Analysis to justify
6. Use plot libraries to output the finding in each state
7. You can use Jupyter or any other notebook for the same or develop with desktop IDEs like Visual Studio
8. The project should be in working condition which is the most imp thing even if we don’t use all the considerations as described above.

**Milestones:**

30 days to complete the Project

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| **Milestone** | **Duration** | **Task start - End Date** |
| Kick off and Business Objective discussion | 1 day | 4/3/2021 |
| Data set Details | 1 Week – 1 ½ week | 12/3/2021 |
| EDA | 2 Weeks – 2 ½ week | 19/3/2021 |
| Model Building | 1 Week – 1 ½ week | 26/3/2021 |
| Model Evaluation | 1 ½ week |  |
| Feedback | 2/4/2021 |
| Deployment | 1 Week | 9/4/2021 |
| Final presentation | 1 day | 9/4/2021 |

Protocols:

1. All participants should add here to agreed timelines and timelines will not be extended
2. All the documentation – Final presentation and R/python code to be submitted before the final presentation day
3. All the participants must attend review meetings