Successful Startup

You can download the initial file for this question from this link.

Amirali, who has recently graduated from university, wants to start a new startup, but he is very afraid of failure. For this reason, he has researched it extensively, the result of which is a dataset that includes information on a large number of successful or failed startups. Now, Amirali asks you to design a model using this dataset that predicts whether this startup will succeed or not, based on the data from its first few months.

Evaluation Metric

The `F1 Score` metric is used to evaluate your model, and the averaging method is `macro`. To score in this question, your model must have an `F1 Score` of at least 0.40, and in this case, the final score will be calculated based on the following formula:

$$round(f1score, 3) \times 100$$

If your model does not reach the threshold, the received score will be **zero**.

▼ **Attention**

The score you see during the competition is only the result of your model's evaluation on 30% of the test data. After the competition time ends, your **final score** will be calculated on the remaining 70%.

This is done to prevent overfitting and maintain the generality of the model to ensure that models which have been overfitted will drop in the final scoring.

Submission Method

To answer this question, first open the notebook file located in the initial file and then follow the steps as requested. Finally, after running the answer-generating cell (the last cell of the

notebook file), submit the created `result.zip` file.

▼ **Important Warning**

Note that before running the answer-generating cell, save the changes made in the notebook using the shortcut key `ctrl+s`, otherwise, at the end of the competition, your **score** will change to **zero**.

Also, if you are using Colab to run this notebook file, before submitting the `result.zip` file, download the latest version of your notebook and place it inside the submitted file.