**Predict Fraudulent Transactions**

Max. Marks: 1

**Problem Statement**

Societe Generale (SocGen) is a French multinational banking and financial services company. With over 1,54,000 employees, based in 76 countries, they handle over 32 million clients throughout the world on a daily basis.

They provide services like retail banking, corporate and investment banking, asset management, portfolio management, insurance and other financial services.

While dealing with innumerable money transactions, they’ve set up an internal team which closely monitors and alarms the transactions which could be deemed fraudulent.

In this problem, given an anonymised data of transactions, you have to predict the probability of a transaction being fraudulent.

[**Download Dataset**](https://he-s3.s3.amazonaws.com/media/hackathon/brainwaves-17-1/predict-fraud-transactions/f992303a-d-BW2017_2.zip)

**Data Description**

You are given three files to download: train, test and sample submission.

| **Variable Name** | **Description** |
| --- | --- |
| transaction\_id | unique transaction id |
| \*num\_var | numeric variables |
| \*cat\_var | categorical variables |
| target | target variable (1 = Fraudulent, 0 - Not Fraudulent) |

**Submission**

A participant has to submit a csv file(or a zipped csv file) with transaction\_id and target as predicted probability. Check the sample submission file for reference.

transaction\_id, target

id\_1, 0.34214

id\_6, 0.01233

id\_9, 0.53421

id\_14, 0.87671

id\_15, 0.12201

**Evaluation Metric**

Submissions will be evaluated based on AUC-ROC score.