# American Express (Intro)

Problem Statement: American Express User Exit Prediction

1. Data Points
   1. Credit Score
   2. Geography
   3. Gender
   4. Age
   5. Customer Since
   6. Current account
   7. No of Products
   8. UPI enabled
   9. Estimated yearly salary
   10. Closed

Using DEEP LEARNING METHOD

Resources Downloaded and in same folder (File Name –Dataset\_master)

# Data Preprocessing (Intro)

* Step -1 : Data preprocessing importing Libraries
* Step -2 : Data preprocessing importing datasets
  + Covert .xlsx files to .csv

df = pd.read\_excel('file\_name\_Excel\_to\_Convert.xlsx')

df.to\_csv (File\_name.csv', index=False)

from google.colab import files

files.download('File\_name.csv')

* Step – 3 : Handling the missing data
* Step – 4 : Encoding the categorical data
* Step – 5 : Splitting data into test and training set
* Step – 6 : Feature Scaling

# ANN implementation

Step 1: ANN Initialization

Step 2: Adding input layer and first hidden layer

Step 3: Adding second hidden layer

Step 4: Adding Output Layer

Step 5: Compiling ANN

Step 6: Training on Dataset

Step 7: Predictions

Step 8: Confusion Matrix