**Barcelona Competition**

Churn prediction in the bank's customer database

## Features Description

* CLIENTNUM: Unique identifier for each client (Integer)
* Attrition\_Flag: Indicator of whether the customer has left the bank or stayed
  + Attrited Customer -> 0
  + Existing Customer -> 1
* Customer\_Age: The age of the customer
* Gender: Customer Gender
* Dependent\_count: Number of dependents the customer has.
* Education\_Level: Client's education level.
* Marital\_Status: Marital status of the customer.
* Income\_Category: Income category of customer.
* Card\_Category: Type of card of the customer.
* Months\_on\_book: The time the customer has been on the books.
* Total\_Relationship\_Count: Total number of relationships the customer has with the credit card provider.
* Months\_Inactive\_12\_mon: Number of months the customer has been inactive in the last twelve months.
* Contacts\_Count\_12\_mon: Number of contacts the customer has had in the last twelve months.
* Credit\_Limit: Customer's credit limit.
* Total\_Revolving\_Bal: Customer's total revolving balance.
* Avg\_Open\_To\_Buy: Customer's average open-to-buy ratio.
* Total\_Amt\_Chng\_Q4\_Q1: Total amount changed from quarter 4 to quarter 1.
* Total\_Trans\_Amt: Total amount of the transaction.
* Total\_Trans\_Ct: Total transaction count.
* Total\_Ct\_Chng\_Q4\_Q1: Total count changed from quarter 4 to quarter 1.
* Avg\_Utilization\_Ratio: Average client utilization ratio.