

# Who will stay 2 years or more?

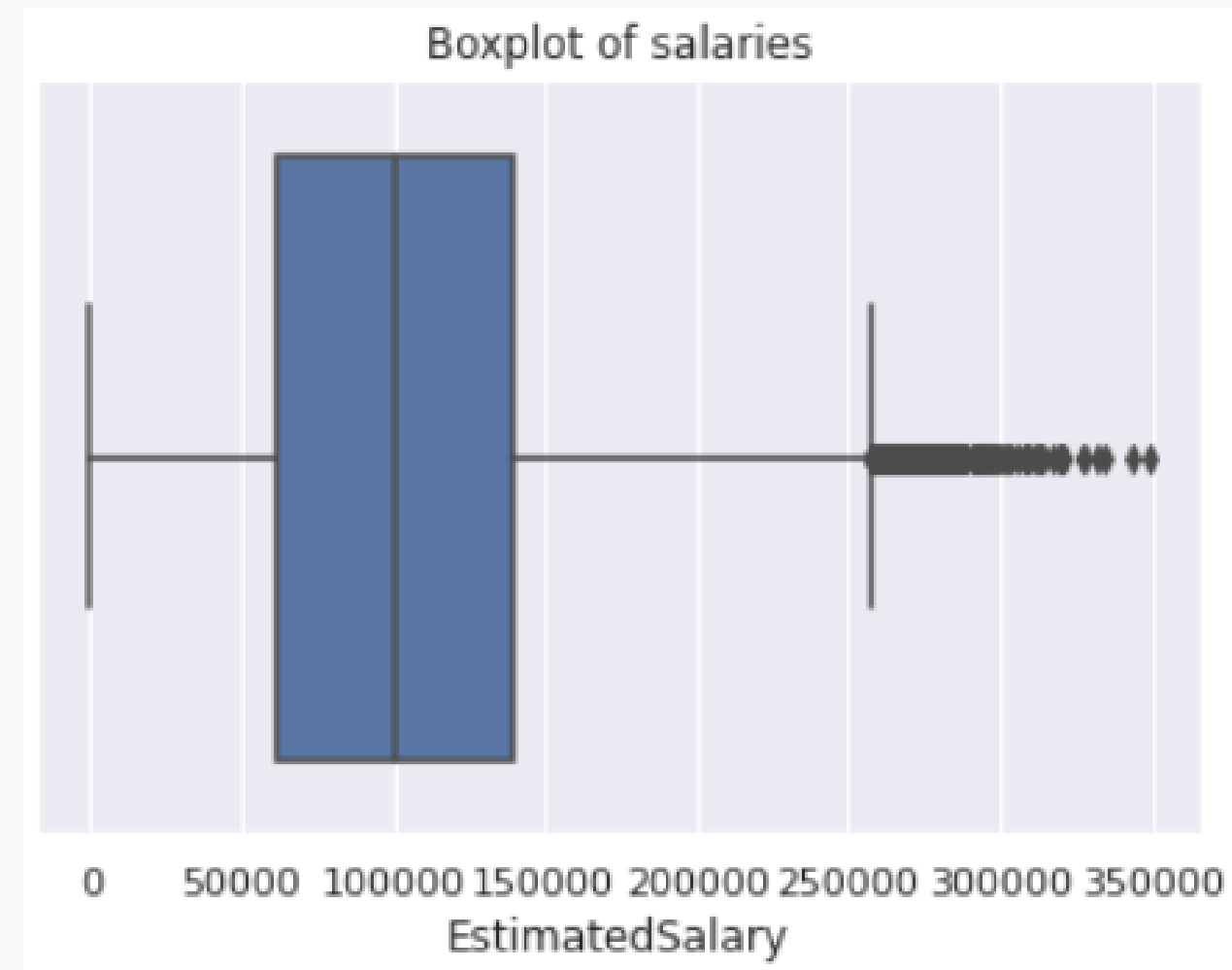
Kin Security assumes 80% of costs. **Clients must stay 2 years or more** in order to profit. The goal is to identify those people based on their history, credit score and bank transactions.

# Desired population.

## The filters.

- Contracts from 2015 onwards → 623242 records
- Operations in Italy were closed → 487424 records
- Clients with 75% of missing info removed → 464075 records
- Clients with one contract only → 118897 records

# Variables and their stats

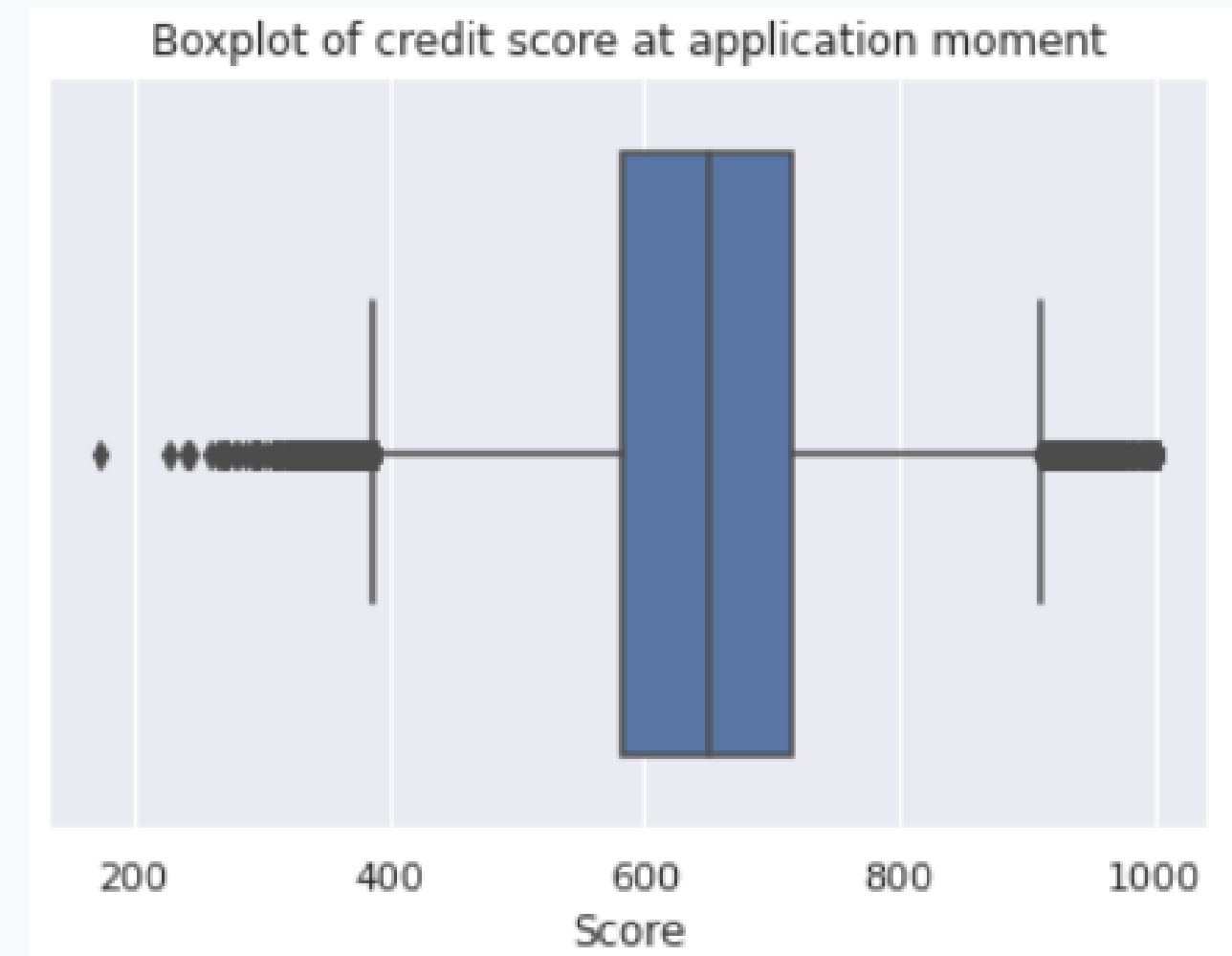


Mean: 101169

Std: 55698

Min: 0

Max: 349080



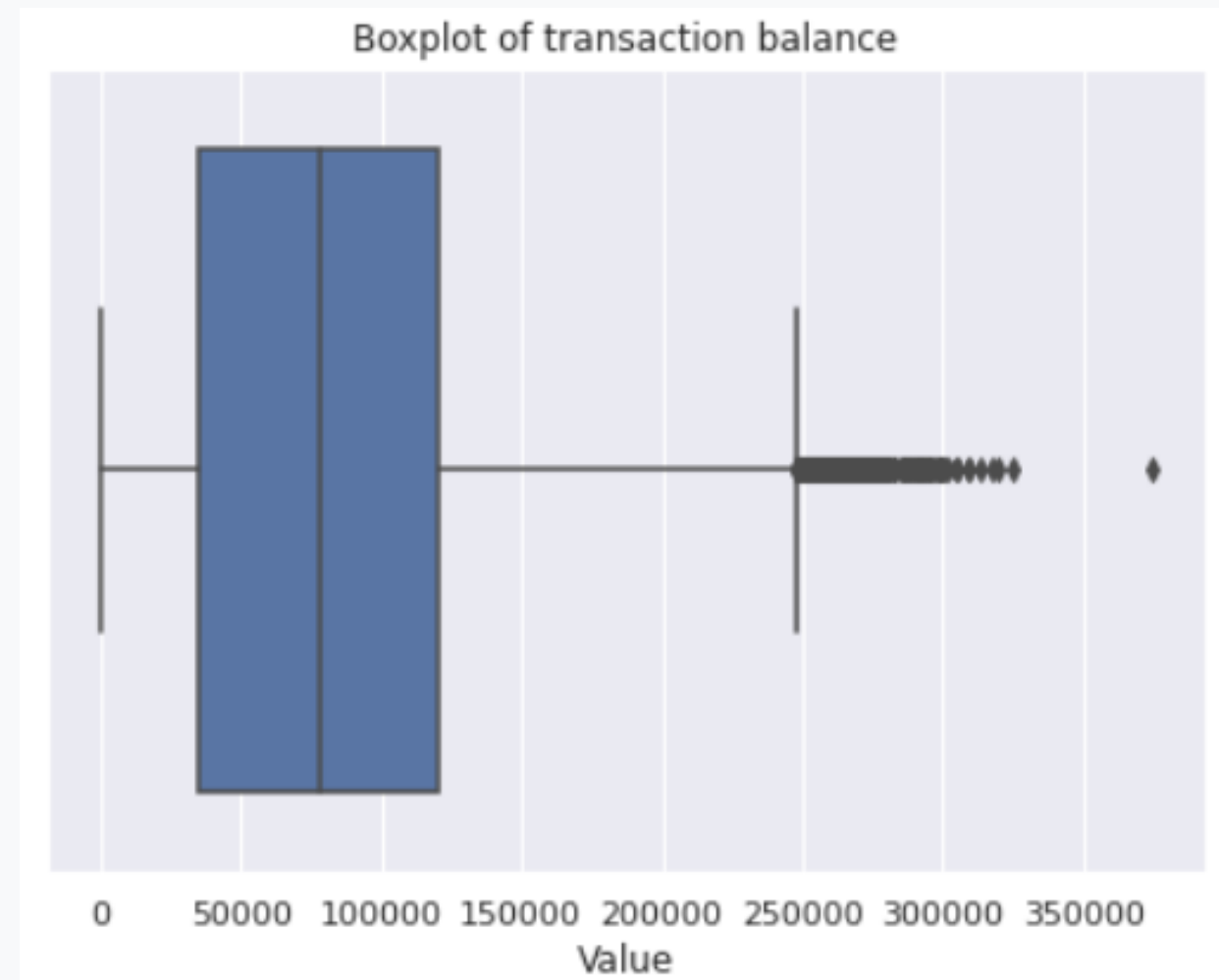
Mean: 650

Std: 97

Min: 174

Max: 1000

# Variables and their stats

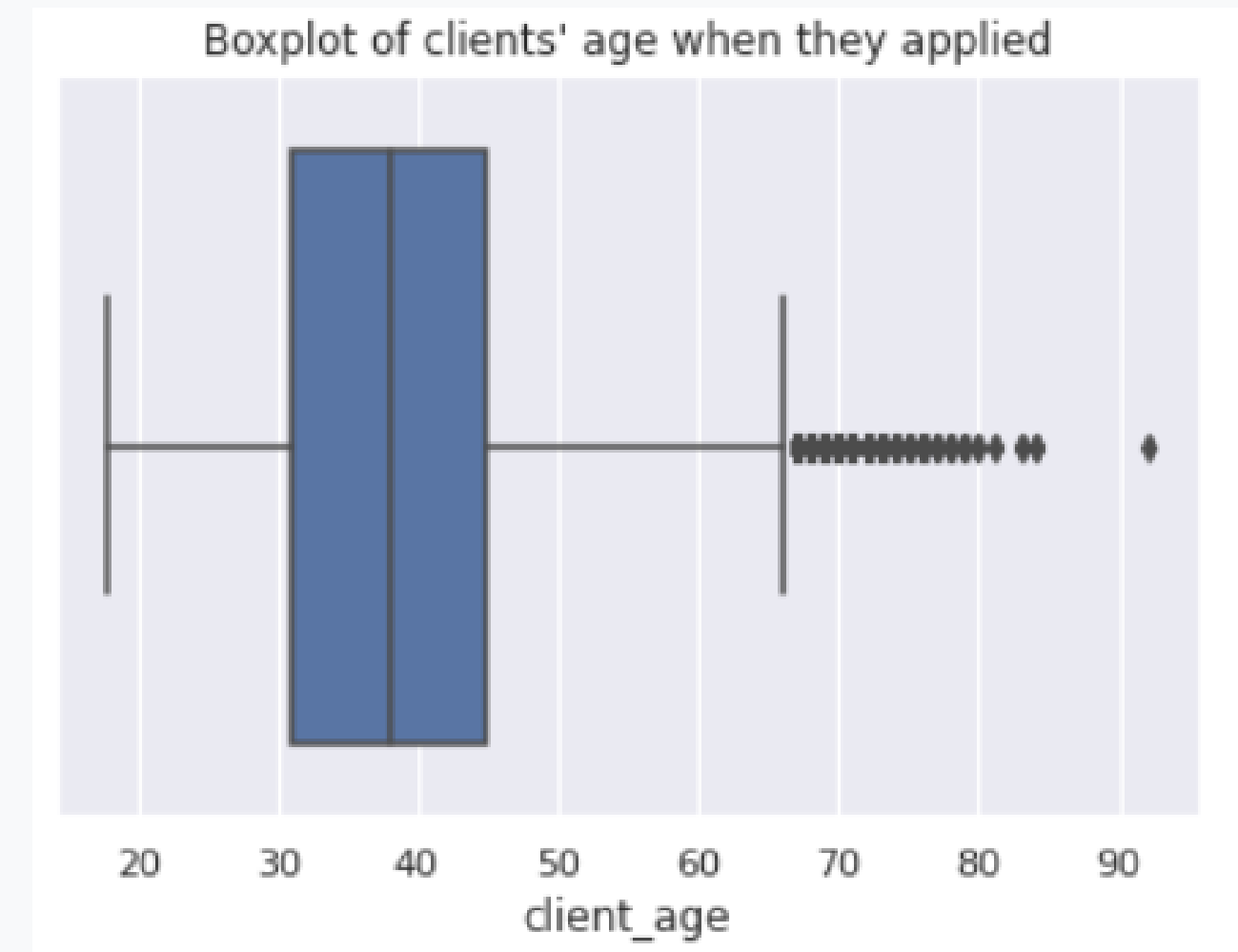


Mean: 80724

Std: 56654

Min: 0

Max: 374634



Mean: 39

Std: 10

Min: 18

Max: 92

# Who will stay: Logistic Regression

**Logistic regression** is the model chosen to predict who will stay. Numerical variables were **standardized** and categorical variables were **encoded**. This way, the model performs better.

# Why logistic regression?

As the goal is a binary classification and we have enough variables, **this model fits the context**. Furthermore, in this case, it's not computationally expensive.

Having trained the training set and then compared to the testing set, we got an **accuracy** of **79.24%**.

Thus, commercial campaigns can be based on this model.

# See the full analysis on GitHub

Repository on [GitHub](#)

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