

Bank Churn Internal Report

Background

Pulled public data from <https://www.kaggle.com/datasets/mathchi/churn-for-bank-customers> licensed under CC0: Public Domain.

This is a dataset more often used in machine learning models to predict churn. It's also used for cleaning and analysis entirely within Tableau.

Initial Preparation

Even though the dataset is frequently cleaned and analyzed entirely with Tableau, I still loaded it into a dataframe in Python for basic cleaning and analysis.

Loading, Validating and Prepping the Data

Column names and data types look good. Nothing unusual in the basic descriptive statistics for the numeric variables.

There are no N/A values and no duplicated rows.

There are a few outliers for credit score and for age that we'll leave in as we need to see all the data for this analysis and they do not appear to skew the results.

Verifying The Cleaned Data

As the basic statistics look good, we'll continue with further analysis and visualization in Tableau.

One thing that stands out in the correlation heatmap is a 100% or 1:1 correlation between complained and exited. So, we know there's a serious customer service problem. If the customer complained, they left. We'll look at churn rates across several variables, but we know that we need emphasize the relationship between complained and exited.

I saved the clean data to a CSV file for further analysis and visualization in Tableau.

Please see page 2 for the correlation heatmap.

Correlation Heatmap

