

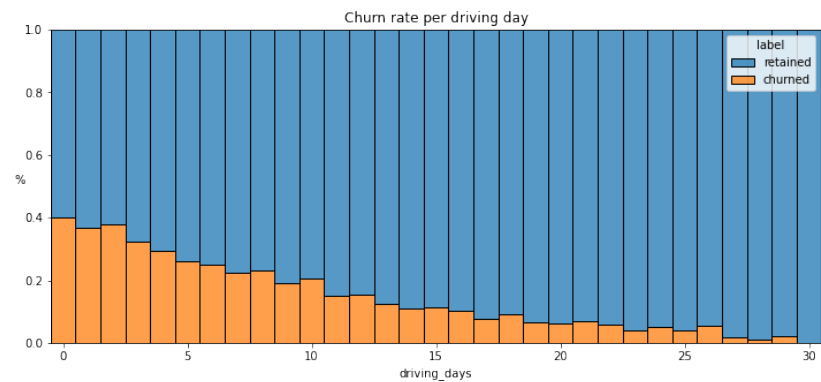
Waze User Churn Exploratory Data Analysis (EDA) Summary

Project Overview

The data team is currently developing a data analytics project aimed at increasing overall growth by preventing monthly user churn on the Waze app. Thorough exploratory data analysis (EDA) enables Waze to make better decisions about how to proactively target users likely to churn, thereby improving retention and overall customer satisfaction. **This report offers details and key insights from Milestone 3, which impact the future development of the overall project.**

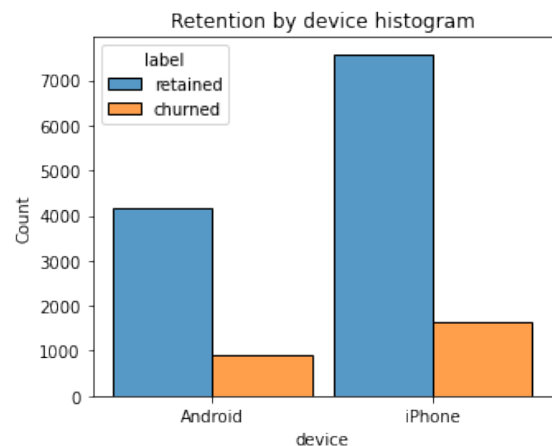
Key Insights

- The more times users used the app, the less likely they were to churn. While 40% of the users who didn't use the app at all last month churned, nobody who used the app 30 days churned.
- Distance driven per driving day had a positive correlation with user churn. The farther a user drove on each driving day, the more likely they were to churn.
- Number of driving days had a negative correlation with churn. Users who drove more days of the last month were less likely to churn.
- Users of all tenures from brand new to ~10 years were relatively evenly represented in the data.
 - Nearly all the variables were either very right-skewed or uniformly distributed.
 - For the right-skewed distributions, this means that most users had values in the lower end of the range for that variable.
- For the uniform distributions, this means that users were generally equally likely to have values anywhere within the range for that variable.
- Several variables had highly improbable or perhaps even impossible outlying values, such as: `driven_km_drives`, `activity_days` and `driving_days`.



The churn rate is highest for people who didn't use Waze much during the last month.

The proportion of churned users to retained users is consistent between device types.



Next Steps

1. Investigate the erroneous or problematic discrepancies between number of sessions, `driving_days`, and `activity_days`.
2. Continue to explore user profiles with the greater Waze team; this may glean insights on the reason for the long distance drivers' churn rate.
3. Plan to run deeper statistical analyses on the variables in the data to determine their impact on user churn.

