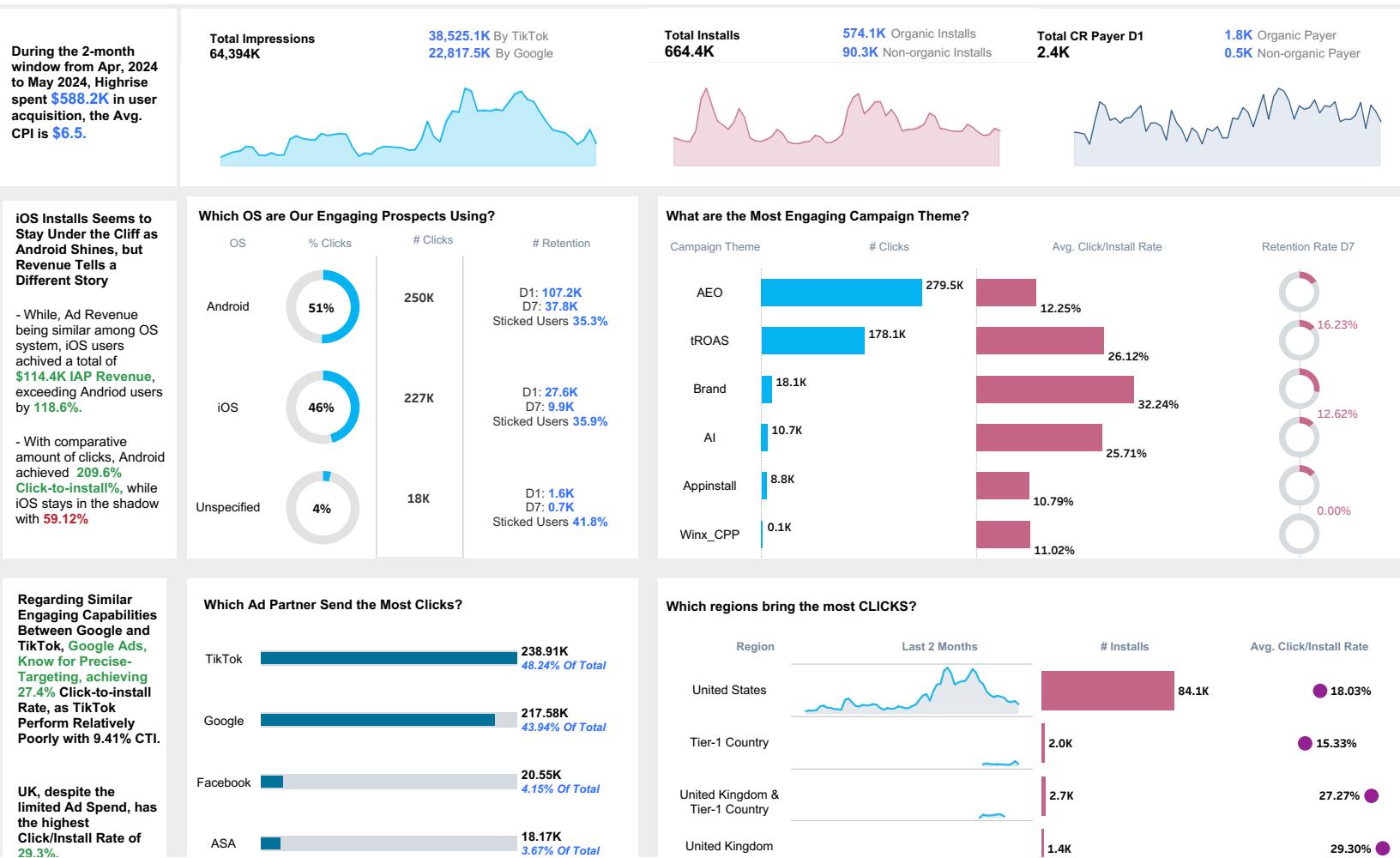
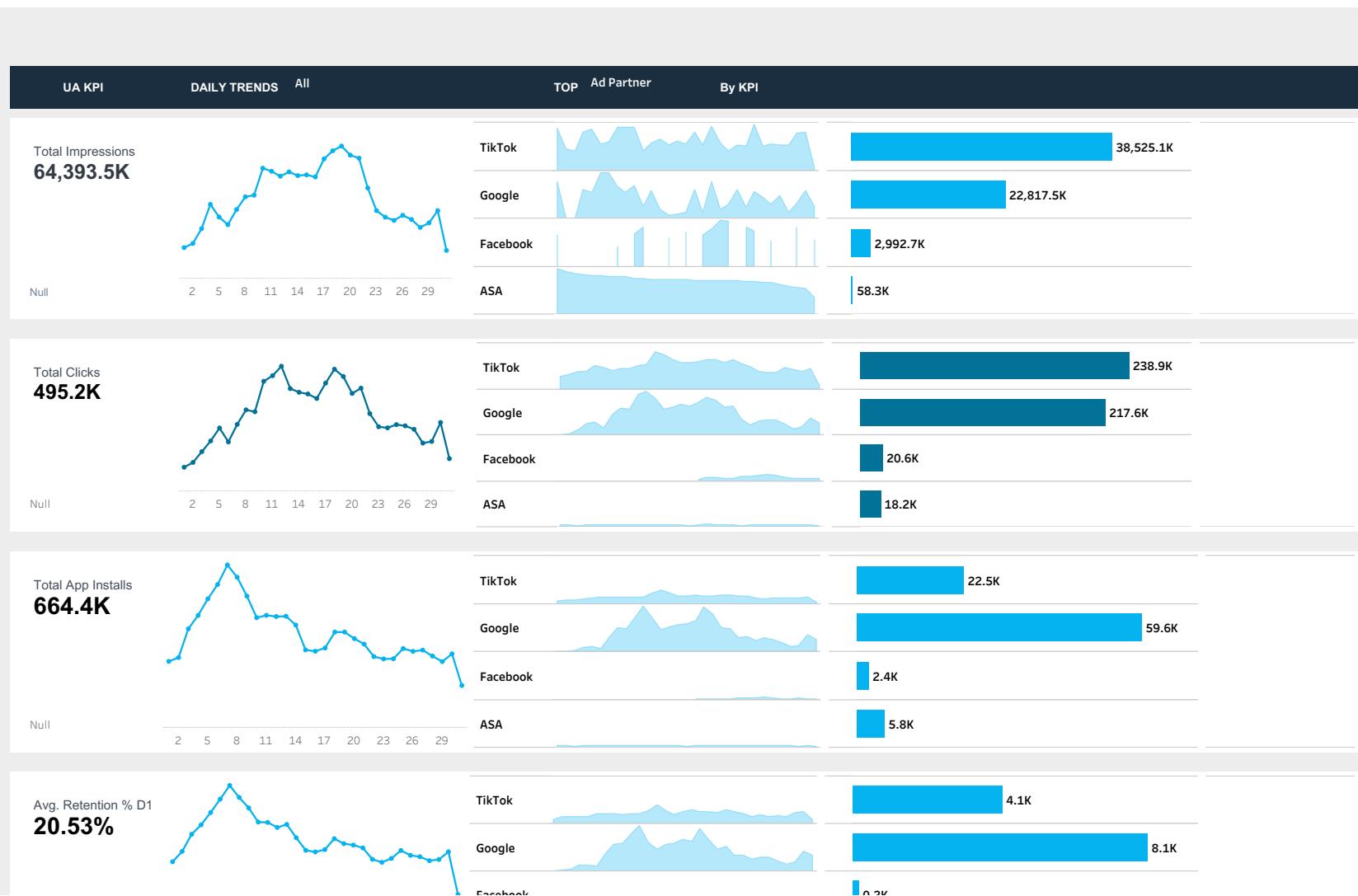


Highrise User Acquisition Cohort Analysis

By Celine Ji..



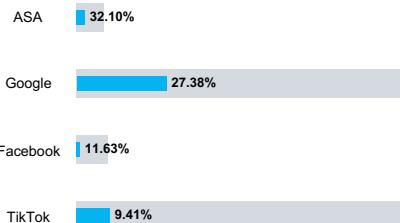


Performance Deep Dive On Ad Partners All

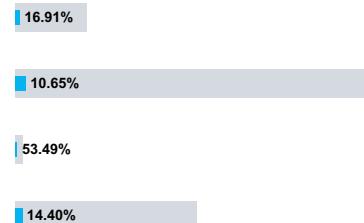
compare performance by selecting period window.

Which Ad Partner Drive Highrise's Ability to Convert Leads?

% Click-to-Install Rate



% Retention-to-Payer Rate D1



Highlights

- Users acquired through **Facebook Ads** are most likely to make a purchase on **D1** after installs, although the Avg. CPC is the highest as \$2.24.
- While **TikTok Ads** is excellent for engaging with a younger segments with interactive user experiences, but it's short in front of **Google Ads' intent-based targeting strategy** and the lowest CPC of \$0.89.
- **Apple Search Ads** and **TikTok** shares the similar CPC rate of \$1.14 and \$1.37 respectively, but **Apple Outperformed TikTok Ads by 241% in Click/Install Rate.**
- ..

Number of Monetization-able Opportunities

Impressions

of times an ad is displayed on a user's screen, regardless of the uniqueness of user id.

Clicks

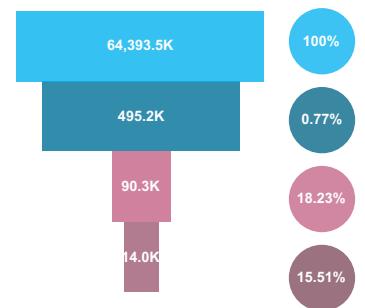
of times users click on an ad, and being redirected to Highrise installation page.

App Installs

of times Highrise is installed on users' device

Retention D1

On the 1st day post-install, the number of users who has interacted with Highrise

Top Campaign Theme Opportunes
By Spend vs. Predicted Revenue on D365

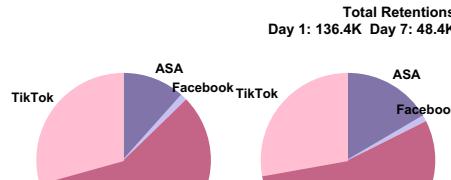
Total Spends



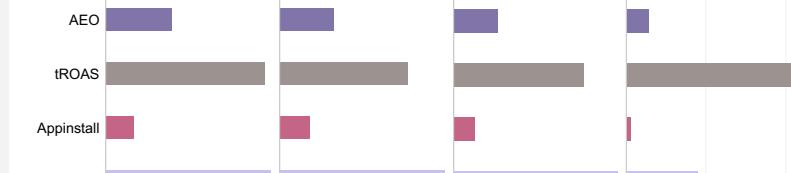
Total Predicted Revenue D365



Where do Highrise's Frequent Users Most Likely Come From?



Campaign ROAS



Investigating Monetization Potentials and Hybrid Revenue Stream

DAILY TRENDS BY All

compare performance by selecting period window.

Total Spends
588.2K

Total Ad Net Revenue
28.5K

Total IAP Net Revenue
186.5K

Total Returns D1
10.1K

Highlights

- Comparing to Apr, IAP Revenue Drops By **-20.1%** as Ad Revenue Climbs By **33%** in May.

- Total Returns on D1 Increased by **83.9%** in May, Comparing to Apr, 2024.

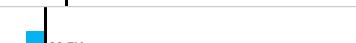
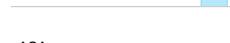
- Comparing the Lastest Week's Performance with the Previous Week, All Revenue Sources has Decreased as the Spends Increase by **31.3%**.

Ad Partner

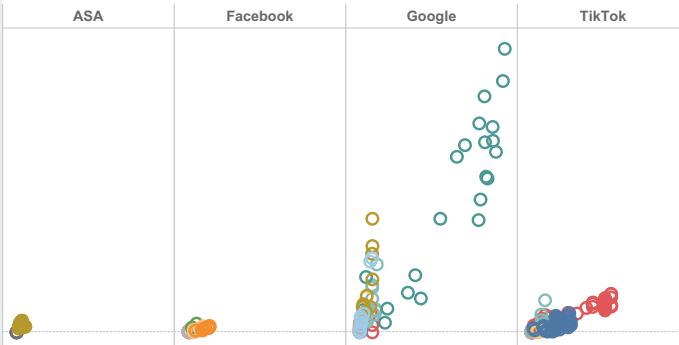
Spending Trends

Total Spends

% Spends



Measure Installs vs. Spends Across All Campaign Cohorts



Where do Highrise's High-value Users Come From?

- While 79% of IAP Revenue came from organic media, Apple Search Ads is the most likely profitable Ad Partner with **\$19.9K IAP Revenue and only 4% of the total Ad Spends**.

- Google generated **\$14.3K IAP Revenue** by spending **Nearly HALF** on UA campaign than TikTok.

Ad Partner

IAP Net Revenue Trends

Total IAP Net Revenue

% IAP Net Revenue



What Does the Scatter Plot Tell

WAY TO GO !

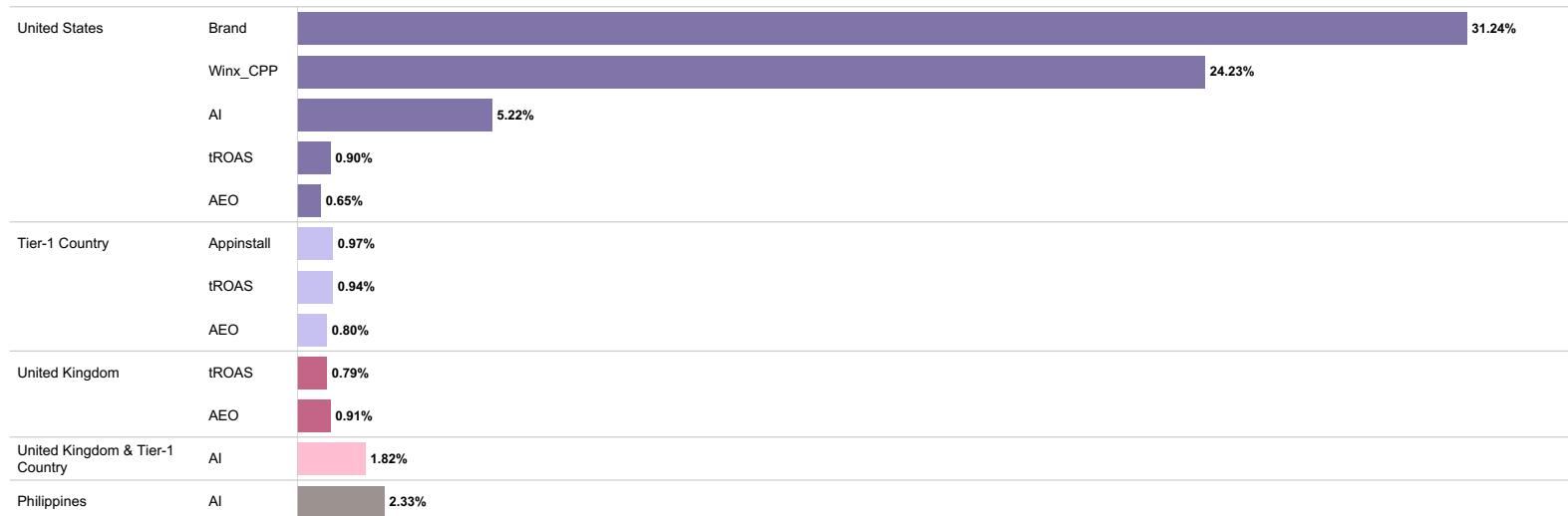
GOOGLE ADS

UA Campaign Optimization Recommendations

Prioritizing UA Metrics that Matters the Most

OUTCOME KPI	INSIGHTS	Shifting Ad Budget to UA Channel That are Most Efficient	Looking at OS Users and Their Region Altogether
		Google > ASA > TikTok > Facebook	If the campaign objective is for expanding user base, invest more on Andriod cohort; if monetization is the purpose, focus more on iOS users,
ACQUISITION: CLICK-TO-INSTALL %	Looking at the CTI, along with CPC and CPI per Ad Partner, Google Ads in all regions leads the game with the lowest CPC should be consider first when launching retargeting campaigns.		Android Users has significantly outperformed iOS cohorts across all regions. In the most heavily invested region, US, Android cohort has exceeded iOS cohorts by 187%, in click/install %.
RETENTION: RETENTION % D7	Observeing Day 7 Retention, Apple Search Ads largely outperformed the others. Although Apple Ads' CPI being the highest, it can be effective in targeting high-value users in the long run.		Android users in the UK region have the higher retention%, while in the US, iOS users are more likely to stay engaging with the App
MONETIZATION: CR.PAYER% D1	When launching campaigns that target high-user users, ASA and Facebook Ads can also be a great option to choose from, with its highest respective CR.payer% of 1.98% and 0.96%.		In Highrise' current largest market, US, iOS users are more likely to make a purchase on D1 after installs, with 0.66% payer%, followed by 0.5% for Andriod Users. Regarding the lower installs rate among iOS users, Highrise should make it balance between acquiring high-value users and expanding user base.

Tailoring to Demographic Interests on Campaign Theme/Focus



HOUSEKEEPING NOTES

Data Assumptions		Data Preprocessing Process Overview
Variable		Cleaning Steps Taken (refer to Jupyter Notebook for details)
Impressions/Clicks/Installs		1. Removal of duplicated rows and rows missing all metrics performance data
ROAS D1/D3/D7 (Do is the day of install)		2. Process 'Campaign_Name' column by splitting attributes into Ad Partner, OS Type, Region, and Campaign Keywords with functions, and manually update rows with special formats.
Revenue D365(predicted)		3. Correct inconsistent values for all categorical variables. Eg. ios is changed to iOS.
Retention D1/D7		4. Check the percentage of missing values for all numerical variables. 45% of the remaining rows are missing data with ROAS in dataset_1.
IAP Net Revenue		5. Inspect the percentage of rows with null values by ad partner and OS type.
Ad Net Revenue		6. Given the different data dimensions between SKAN data and sheet 1 data, and SKAN should be providing more accurate tracking, the following logic is applied:
		a. Since there are only 310 valid entries in SKAN data, and half of the rows are missing SKAN Retention D2 data, the analysis ignores this metric.
		b. Given there are 226 records in SKAN-data, that match with data in sheet 1 on 'Campaign_Type', 'Ad_Partner', 'OS_Type', 'Region', 'Campaign_Kw', 'Date', the following actions have been taken:
		i. IF records match on condition, sheet1's 'Spend', 'Impressions', 'Clicks', 'Installs', are replaced by data in SKAN data, if the corresponding value in SKAN data is not null.
		ii. IF records match on condition, m_ROAS D1, m_ROAS D7 in SKAN data are merged, and other cells are filled with null.
		7. Output the cleaned_dataset as xlsx. and pickle file
		a. Output data frame structure: [646 rows x 22 columns]