SUBARU ADVERTISING CAMPAIGN

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- Analyzing the dynamic dataset of Subaru advertising campaign from Goodway Group
- Providing insights for parameters that drive ads engagement. (GTC, Clicks)
- Listing features that would make the advertising opportunity up for bidding process. (Win Rate)



GTC / Conversion Rate

Predict conversions

Training Data R-square0.9801Testing Data R-square0.9411Training Data MSE123544.401Testing Data MSE178743.523

LassoLarsCV Result

Feature	Coefficient	Rank
Spring	481.8424	1
Science_Site	224.1416	2
Game_Site	96.6833	3
9545*9545AF	68.8240	4
Personal_Finance_Site	66.0463	5
other_DT	-8.4489	-5
switch_concept_SV	-14.9482	-4
Autumn	-32.5415	-3
rtkio_sv	-89.9859	-2
Militery_Site	-540.8146	-1



Predict the number of clicks a hypothetical campaign would get



LassoLarsCV Result

Feature	Coefficient	Rank
Yandex_Browser	473.9902	1
Military_Site	149.0807	2
nativo_SV	62.6827	3
Winter	55.7841	4
9545×9545_AF	36.0826	5
Summer	-6.2763	-5
Pets_Site	-7.3230	-4
Careers_Site	-7.9010	-3
Anime_Site	-12.9083	-2
Science_Site	-39.2541	-1

To Maximize Clicks

- Your ideal browser to run a campaign is **Yandex**
- Your campaign performs best on Sites of Military,

but bad on Pets Site, Careers Site, Anime Site, and Science Site.

- \supset The supply vendor of **Nativo** is an awesome platform to start your campaigns.
- 🧭 Your ideal season to run a Subaru campaign is on **Winter** instead of Summer
- For display advertising campaign, the format of **9545x9545**, which is the largest picture
- size, will definitely attract more people to click

Win Rate

Predict the average win rate for the campaign

0.7875 0.7723 91860 264860

Training Data R-square Testing Data R-square Training Data MSE Testing Data MSE

Light Gradient Boosted Trees Regressor w/ Early Stopping

Feature	Feature Effects	Rank
Mobile_DT	100%	1
noon_TOD	25%	2
Firefox_Browser	24%	3
Safari_Browser	24%	4
Yandex_Browser	20%	5
dawn_TOD	20%	6
Opera_Browser	14%	7
Tablet_DT	13%	8
Monday_Dow	10%	9
Edge_Browser	10%	10

Thanks!

Any questions?