Dataset

4

Instacart Predict Shopping Time

Multivariate Time series analysis anyone?

Viswajith • updated 8 months ago (Version 1)

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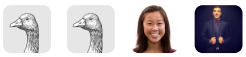


Usability 6.5 **Tags** business

Description

Context

The idea is to predict the shopping time given a shopper id, store id, and the day the shopping was done.

Content

The training data contains by trip id the stores visited, the shopper id, the shopping start and end time.

Acknowledgements

I would like to acknowledge the data science team of Instacart for sending this out to me as a part of their recruitment process.

Inspiration

From the data is it possible to perform a multivariate time series analysis to predict shopping time? How to go about analysis on such data? I have added a preliminary analysis.

Data Sources

- order_items.c... 2.04m x 4
- test_trips.csv 11.6k x 5
- train_trips.csv 117k x 6

About this file

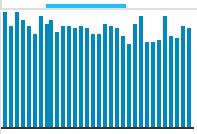
The training data includes trip id, shopper id, fulfillment model, store id for each trip and the shopping time for the trip. The task involves prediction of the shopping time given a data set. The task was a part of Instacart Machine learning challenge on hackerrank. From my kernels it is evident that the shopping time peaks on Sunday from stores both by the number of quantities ordered.

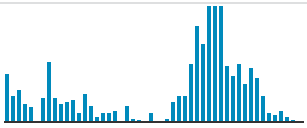
Columns

- trip_id
- shopper_id
- fulfillment_model
- store_id
- shopping_started_at
- shopping_ended_at

train_trips.csv (7.16 MB) — 6 of 6 columns — Views

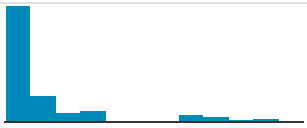
	shopper_id	fulfillment_model	store_id	shopping_started_a	sl
	52 – 69.8k	model_2 67%, model_1 33%	1 – 148	1Sep15 – 16Nov15	1Sep
3119519	48539	model_1	6	2015-09-01 07:03:56	2015
3119513	3775	model_1	1	2015-09-01 07:04:33	2015
3119516	4362	model_1	1	2015-09-01 07:23:21	2015
3119792	47659	model_1	1	2015-09-01 07:29:52	2015
3119922	11475	model_1	1	2015-09-01 07:32:21	2015
3119518	10720	model_1	1	2015-09-01 07:37:53	2015
3119520	43442	model_1	115	2015-09-01 07:39:11	2015
3119703	15696	model_1	6	2015-09-01 07:41:06	2015
3120376	44675	model_2	1	2015-09-01 08:00:08	2015
3120396	20925	model_2	3	2015-09-01 08:00:25	2015
3120415	48375	model_2	1	2015-09-01 08:00:50	2015
3120431	49090	model_2	1	2015-09-01 08:00:52	2015
3120444	48379	model_2	1	2015-09-01 08:00:53	2015
3120420	41636	model_2	3	2015-09-01 08:00:56	2015
3120459	45298	model_2	3	2015-09-01 08:01:03	2015
3120461	46516	model_2	3	2015-09-01 08:01:04	2015
3120462	49544	model_2	3	2015-09-01 08:01:04	2015
3120463	45676	model_2	3	2015-09-01 08:01:05	2015

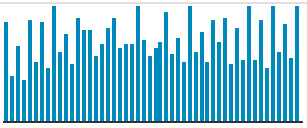




model_2 67%

model_1 33%





3120468	25452	model_2	3	2015-09-01 08:01:06	2015
3120469	47618	model_2	3	2015-09-01 08:01:06	2015
3120470	48883	model_2	3	2015-09-01 08:01:07	2015

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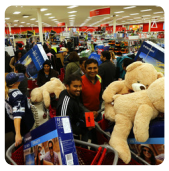

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