Data Science Assignment

Zhongyang Hu

zhongyang.hu.rs@gmail.com

Context

> Data Insight

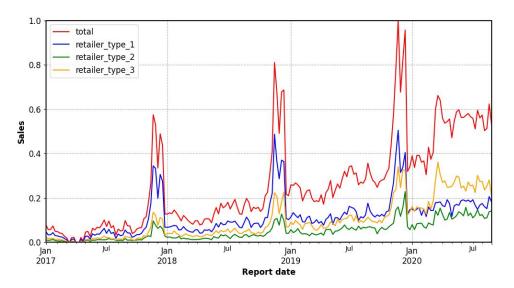
Characteristics of the data

> Forecast

Upcoming 12 weeks (not included in the dataset) for all 4 levels.

> Learning from Machines

Extra knowledge said by the machine learning forecast model

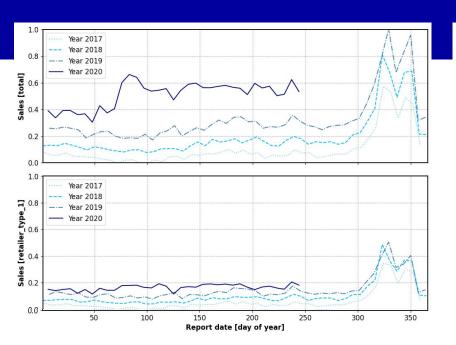


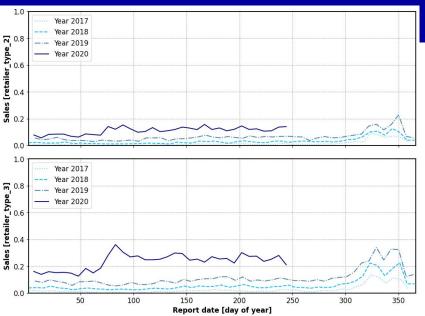
- > The dataset contains weekly data from January 2017 to August 2020
- > The dataset contains 4 levels, total and three `retailer type` levels
- > The `retailer_type` levels as subsets of the total sales

Sales Data

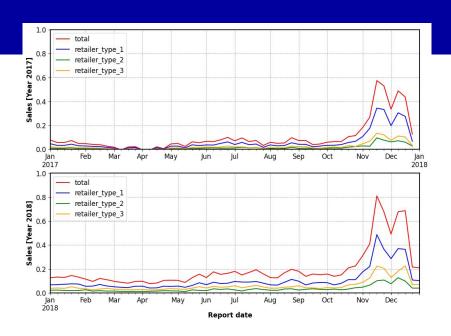
Data Insight

- > Increasing year by year
- > peak seasons during November to December
- > pattern change in Year 2020

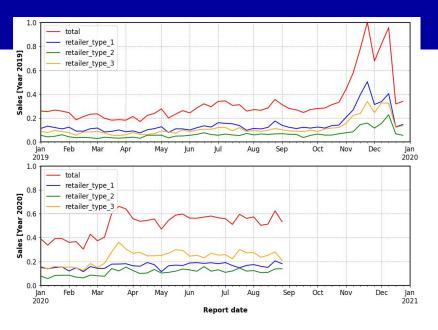




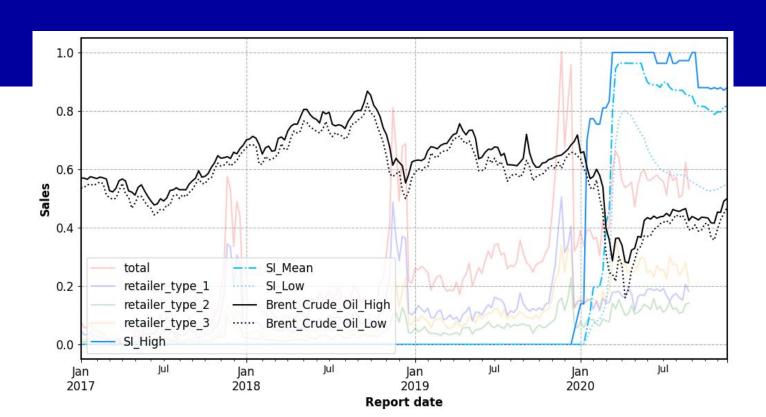
Data Insight



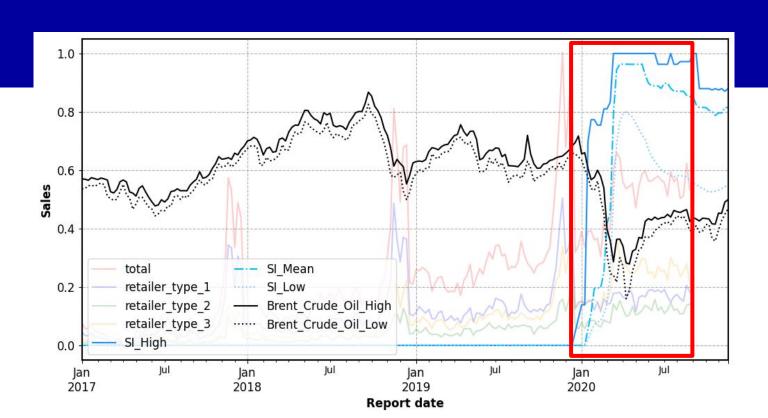
- > Retailer Type 1 dominated sales prior to 2020
- > Retailer Type 3 experienced a surge in sales during 2020
- > Retailer Type 2 exhibits a consistent and stable sales pattern

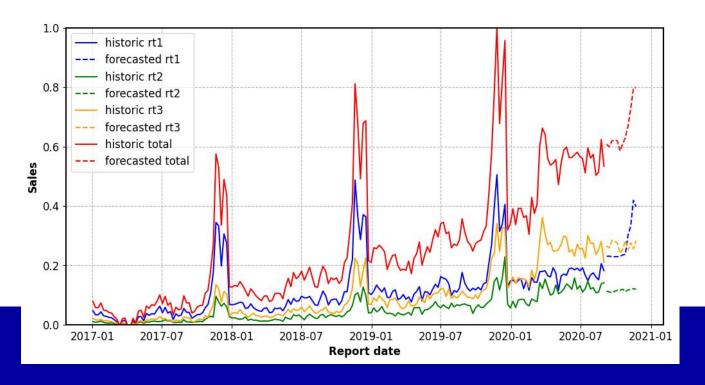


Data Insight (External Data)

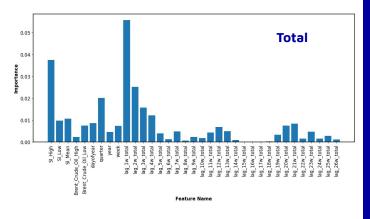


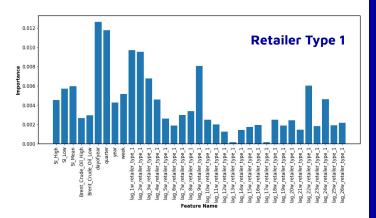
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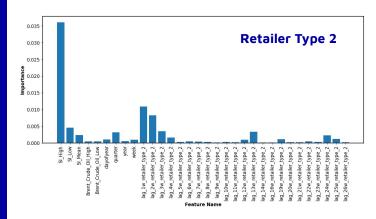


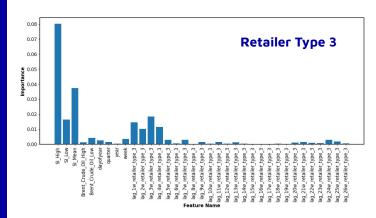
Forecast





Learning from Machines





Questions?

Thanks for your attention.

Additional questions can go to: <u>zhongyang.hu.rs@gmail.com</u>