HERE TO DARE

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Course Project 2020

Rules and Dataset Explaination



Course Project

Dataset Description

window: This year project is based on a sales forecasting dataset with aggregated information for different products (SKU) throughout a 3-years time

- Weekly data (Dec 2016 Dec 2019)
- Data are available for 43 SKU but the target for the prediction is restricted to 12 SKUs

Boolean that indicates SKUs in scope (target)
Number of stores in which the product was put on evidence at w-1 % Volume of product put on promo at w-1 Sales of product at w-1 (lagged target) Boolean that indicates SKUs in scope (target)
% Volume of product put on promo at w-1 Sales of product at w-1 (lagged target) Boolean that indicates SKUs in scope (target)
Sales of product at w-1 (lagged target) Boolean that indicates SKUs in scope (target)
Boolean that indicates SKUs in scope (target)



Course Project

Testing and Evaluation

the target column. Performances will be evaluated by means of the MAPE (Mean Absolute Percentage Error) metric on the test set, which is provided net of

Data are split time-wise into train and test sets with the following criterion:

- 2 years and 6 months in the train set (Dec 2016 July 2019)
- 6 months in the test set (July 2019 Dec 2019)

$$MAPE = \frac{1}{n} \sum_{i=1}^{n} \left| \frac{A_i - F_i}{A_i} \right|$$

 A_i : actual value F_i : forecast value

Data Available in csv format: https://we.tl/t-2zID8BelrK (archive password: DMTMChallenge2020)

Deadline: Friday June 12 23:59

We ask you to prepare and upload on Beep platform an archive containing:

- Prediction.csv: you can find an example in the archive
- Report.pdf. 4 pages to describe your approach, data processing, prediction model and analytical results
- Presentation.pptx: 5 slides for the final project presentation describing you approach, data processing, prediction model
- Scripts.zip: any notebook or script you wrote will be evaluated

If you have any doubt you can ask directly on Beep forum



THANK YOU

