Visualization data analysis, 🡪 Structure of code 🡪 data preprocessing, Feature engineering🡪Validation, model selection, hyperparam tuning, solving competition

**1. Visualization**

Sales per day

Sales per month

Sales per year

Sales per season

Sales per store

Sales per beer

Sales per Segment

Sales per Pack

Sales per product

Sales per Brand

Sales per Volume

And all combinations if useful

gbm machine learning

random forest

keras (maybe later)

Tensorflow/Pytorch (maybe later)

Mix ARMA (for seasonalities(?))

Articles to read:

<https://towardsdatascience.com/5-machine-learning-techniques-for-sales-forecasting-598e4984b109>

<https://www.bi4all.pt/en/news/en-blog/supervised-machine-learning-in-time-series-forecasting/>

<https://www.mdpi.com/2306-5729/4/1/15>

2 Jupyter notebook

Select 2 models (different)