Github--Previous Stack Stackoverflow, Overflow-sampe Work (eg Kaggle Documentation sample code for libraries code from neuefische (esp for (Sklearn etc) notebooks) other users diagrams) Blog posts (Towards feature Data Science, **Dataset** understanding Medium) cheat my Friends colleagues with sheets Colleagues statistical at neue knowledge fische Kickstarter and Understanding numpy crowdfunding of ML models websites Power BI VS git Sololearn code

YouTube **Books** Wikipedia tutorials Publications / magazines/ blogs about the Documentation sector/field the project is part of Resources budget

Kahn Academy

(to explain

stats, other

concepts)

zindi

webpage

sklearn

documentation

google

Resources: Limited Amount of people, time, IT Sources: Less limited things like Books,

laptop (computational resources)

books

youtube

Academic **Papers**

stakeholder

Previous professional experience

Wallstreet/ Business Magazines

expenditure reports

Deep diving into questions of stakeholders and translating them

field analysis reports

> Use Cases

experience

collecting info

wired.com

Discussion with stakeholders, understanding goals

Wikipedia, for understanding background

Business Understanding

selfdescription on the the business website

Stakeholder analysis

Social Media

their product and product cycle

Online Blogs

usual customers

make a solid case for stakeholder

Competition comparatives

Putting yourself in the shoe of your client

Industry reports

deadlines

ask people that work in this business

projects

social failed media companies/

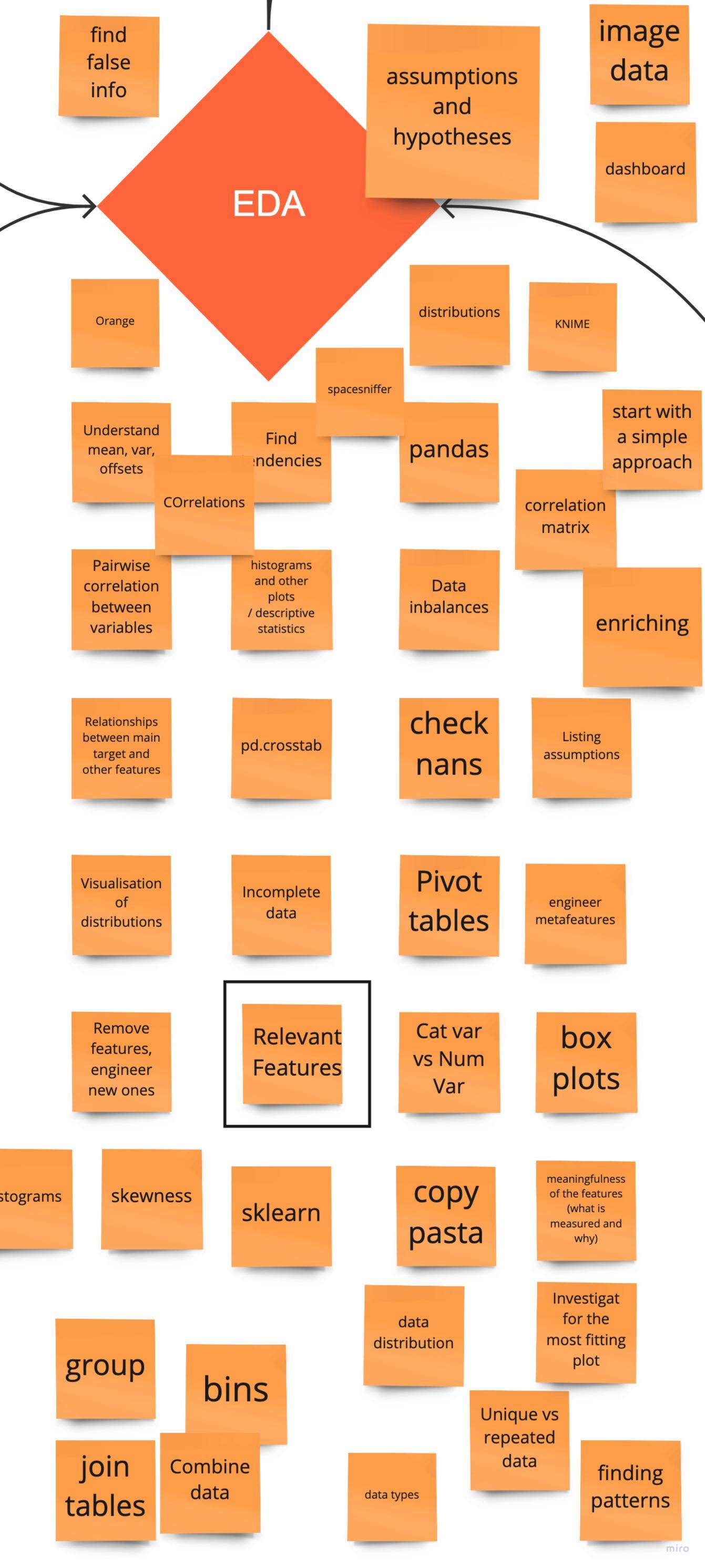
choose

Identify the appropriate delivery for the customer.

Trend research on topic and in a general sense

metric





ratio of one feature to another

conversion

Conversion of strings to numerical data

bins,

fillna

Standardization

Normalization

Inputting

Create

new

variables

format

data

droping

Feature Engineering

balancing

evaluation of importance

dummies

dataVisuals

Remove unnecessary variables time data

miro

Evaluation metrics for model selection

confusion matrix

tuning

scatter looking at residuals

Hyper **Param** start with a simple approach

scikitlearn

dealling with empty values/ Nan

correlation

GridSearch

Base line vs more complex models

picking appropriate model for the data (e.g. how many features? observations?)

Feature importance

important features

supervised ML models

Predictive

Modeling

model weighting

neural net

Regression models

REGRESSION!!!

Base line

choose the right model (under/overfit)

and effect

cause

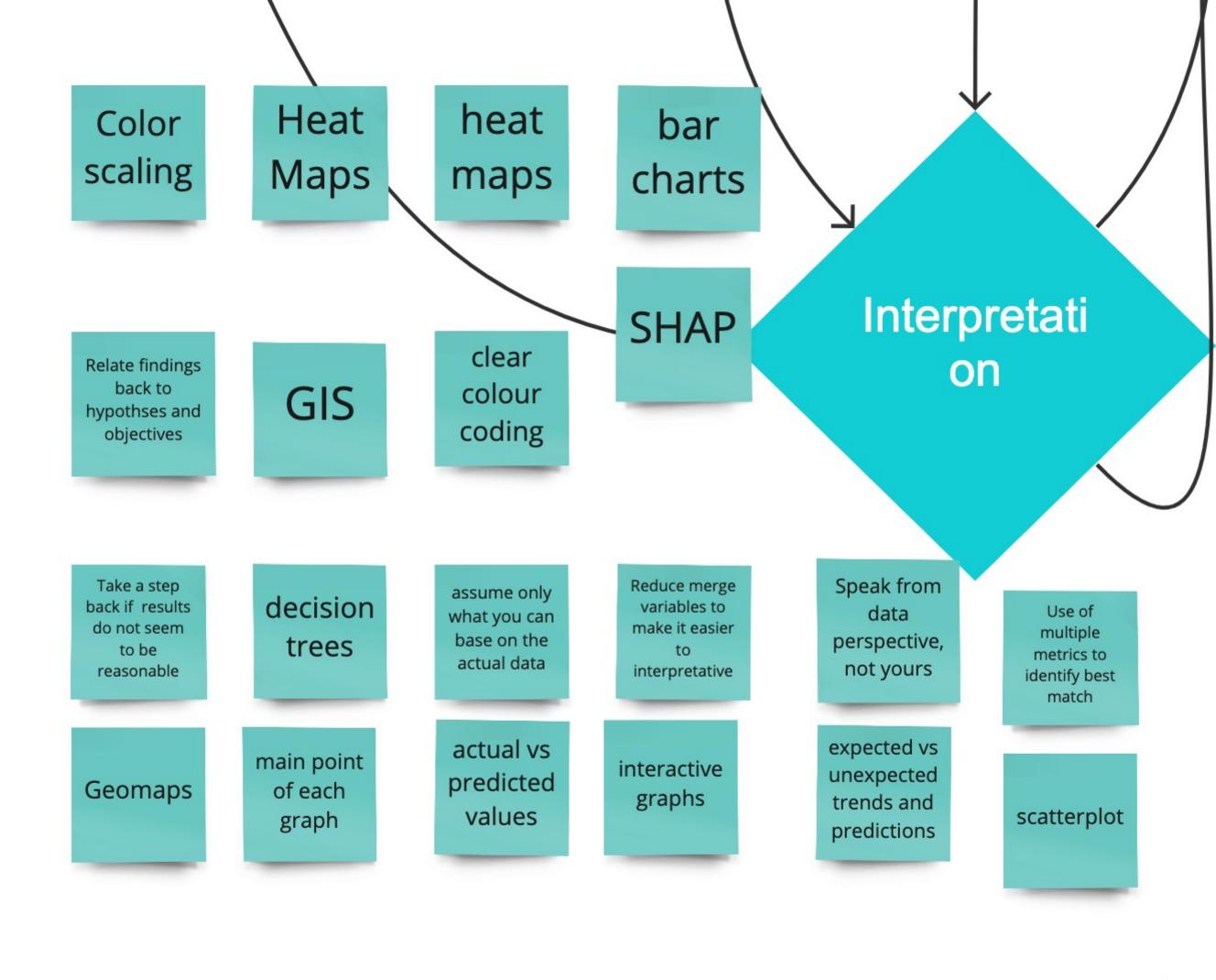
VS

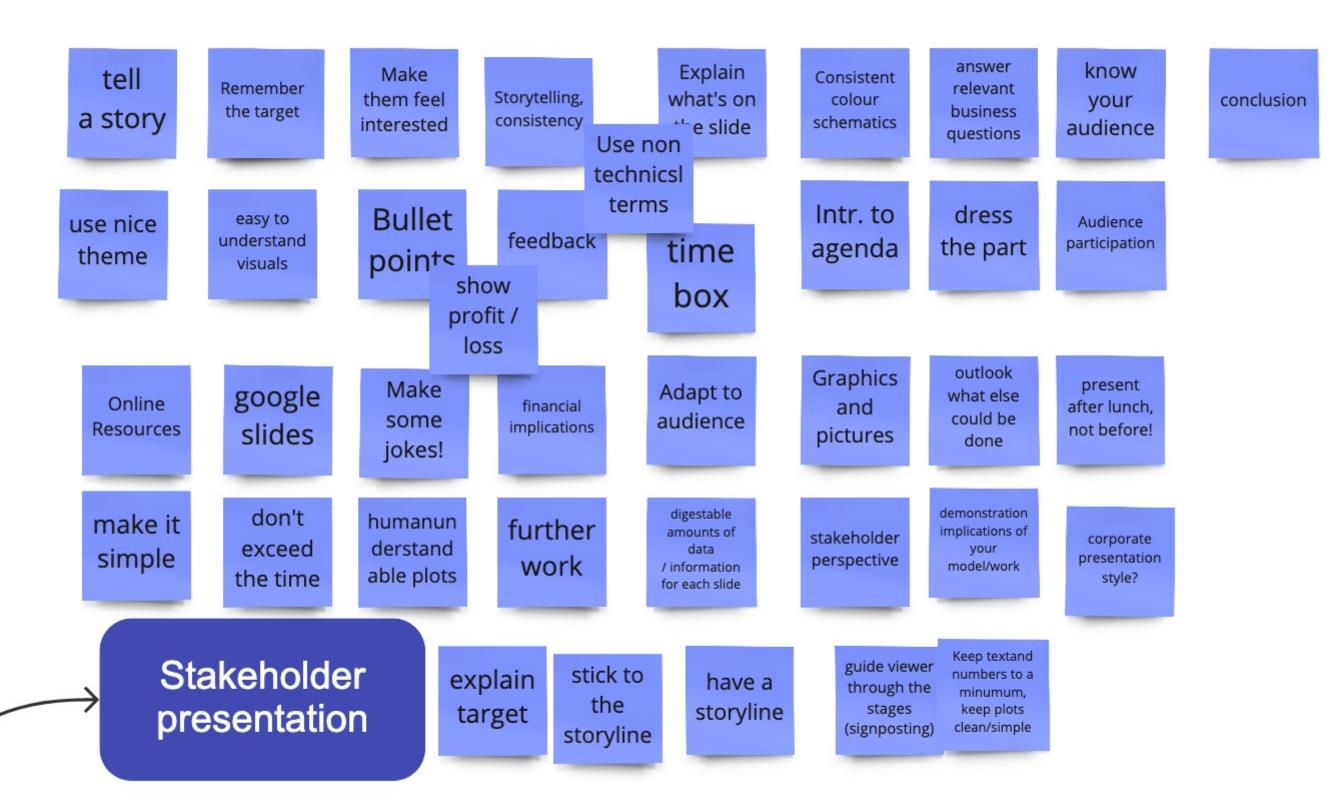
Ensemble methods

Classification models

Correlation

miro





Technical Presentation

Notebooks

Don't present something you can't debate about Plots are still your friends. Not everybody will understand even when supposed to.

Animation or Videos

tell a technic al story

model behaviour document your failings Give your Github details, potential collars Show the time to rune the code

explain model detailes

go into the maths

deep dive where necessary be honest about what cannot be known / limitations

explain why you choose models explain usage of models / reasoning behind

simplify

Code

psedocode

Error handling documetation

Mention potential pitfalls and how they were overcome (others learn from you) No details that are irrelevant for your team

backup slides explain the process in detail

Don't hide data

Present the technical details