

Azamat Omuraliev | Senior Data Scientist @ ING Datafest, 16 September 2023

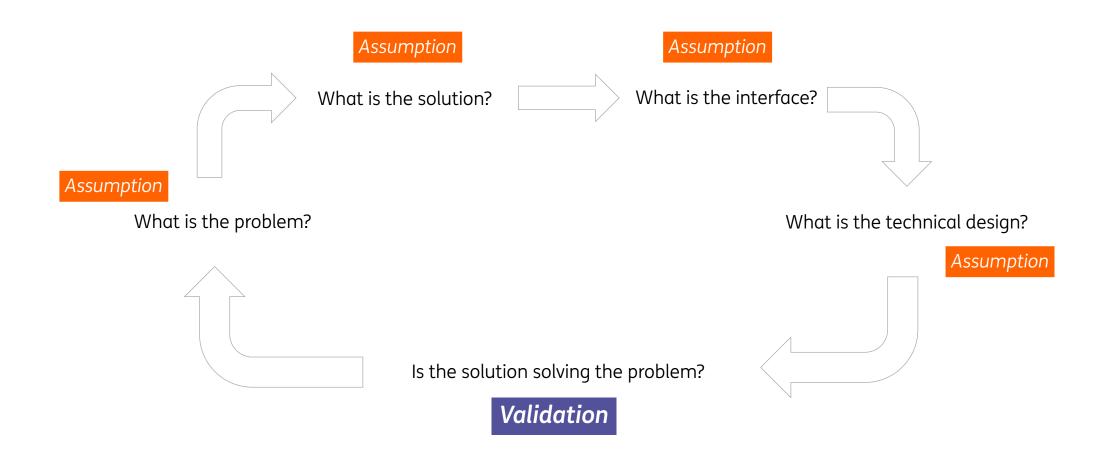
DataFest Tbilisi 2023

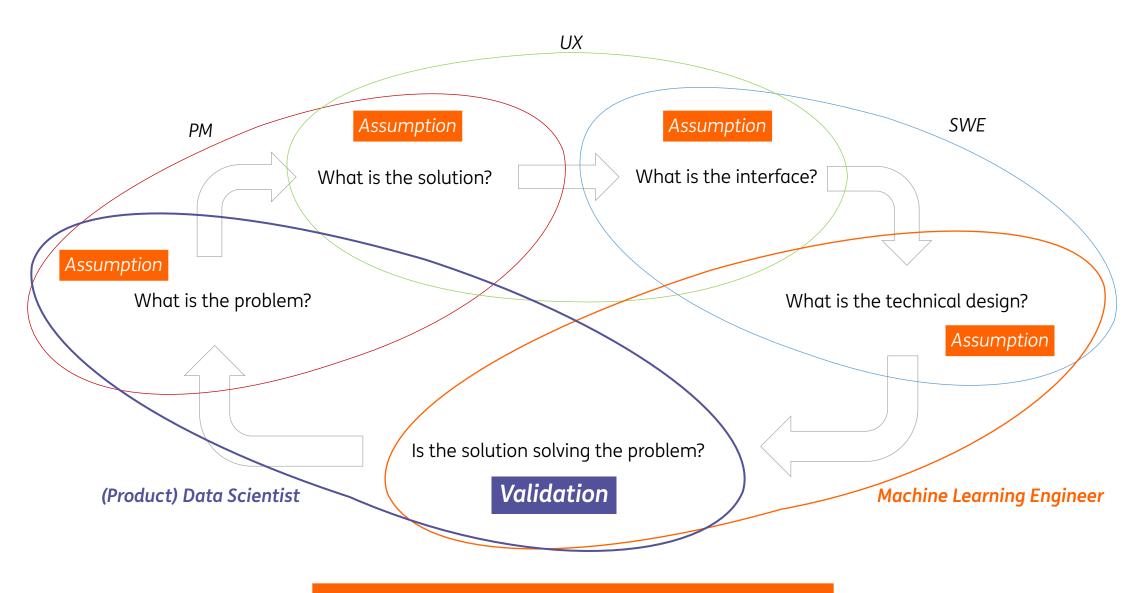












Learning 1: We make assumptions on every step. Validate them

How to improve your chances of building something that **users** want or solves the business need?

Talk to customers

Market research & expert advice

Cycle through faster (early MVPs)

You <u>should</u> do this as a data scientist!

What is the problem?

Make a hypothesis, then experiment

Find validation evidence in data



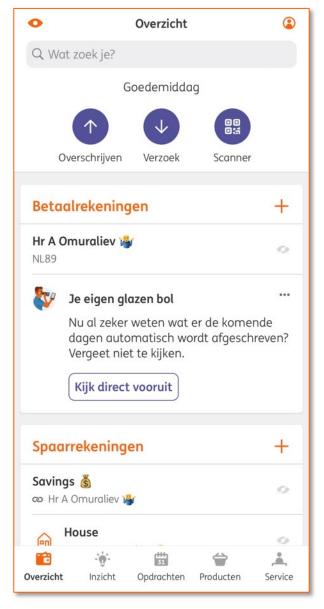
Case 1: Social ads optimization

MVP cycle: 2 months



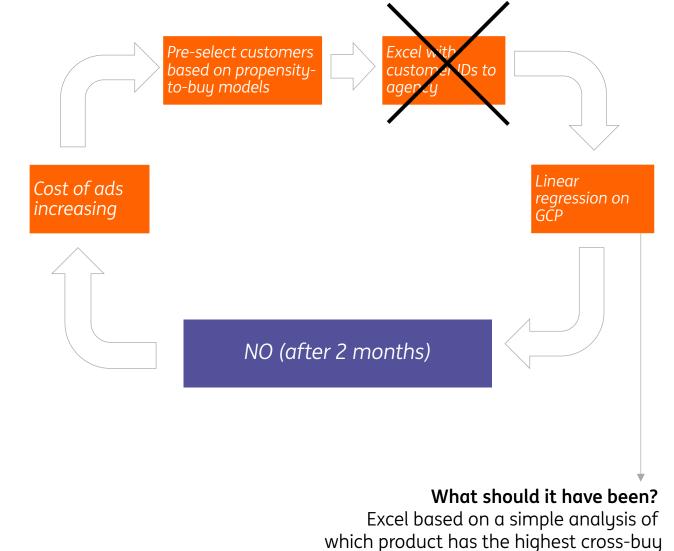
Case 2: Login intent prediction model

MVP cycle: 1 week

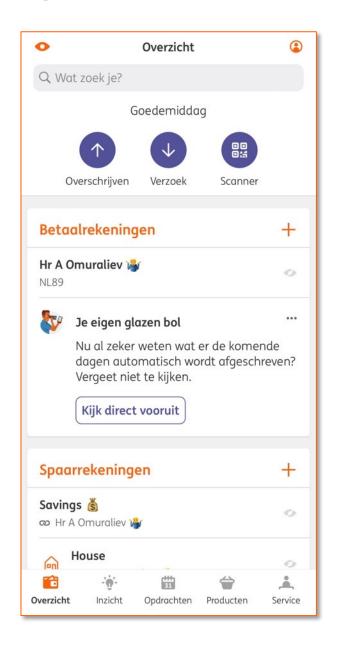


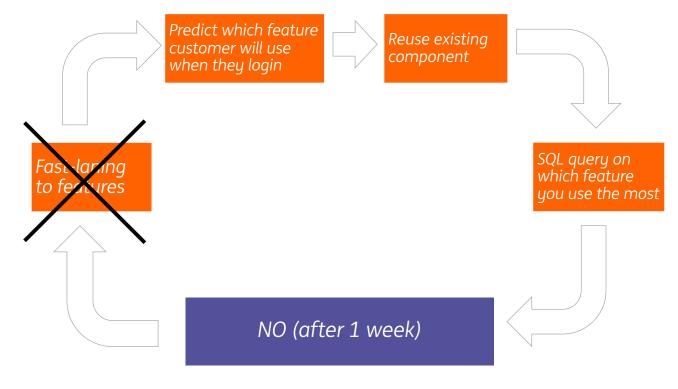
Case 1: Social ads optimization



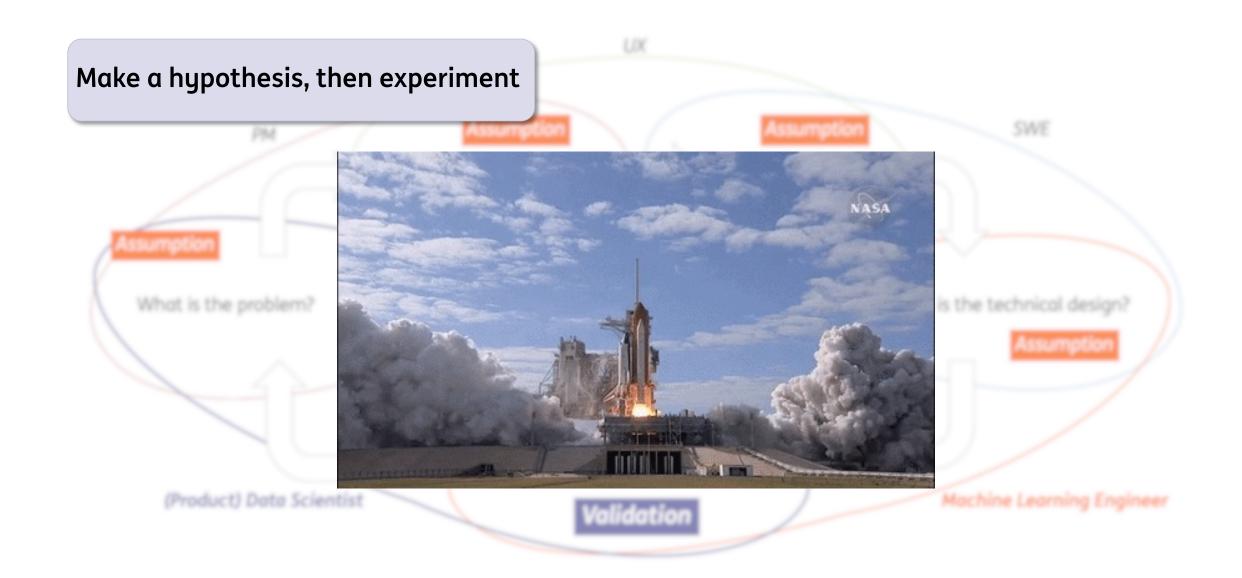


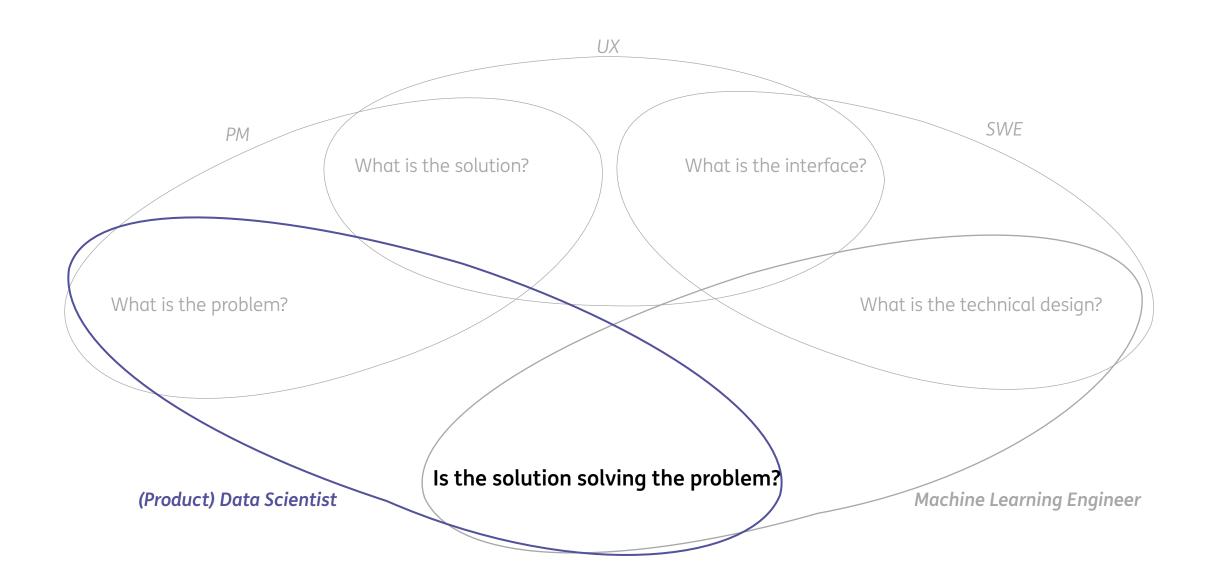
Case 2: Login intent prediction model





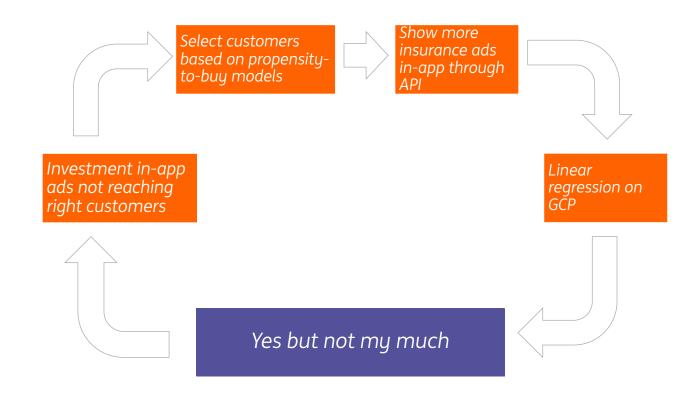
Learning 2: Done imperfectly is way better than done late





How to find the next application for your model?

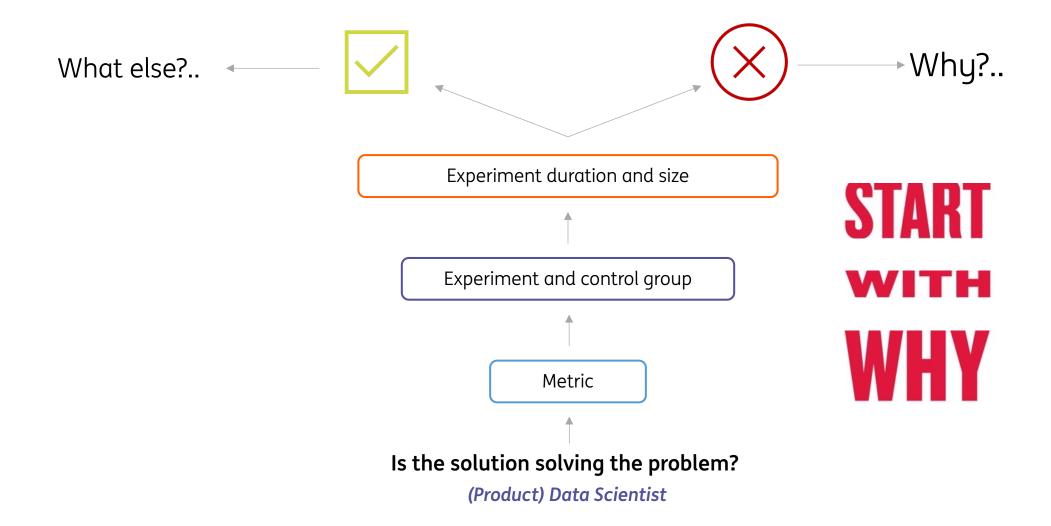


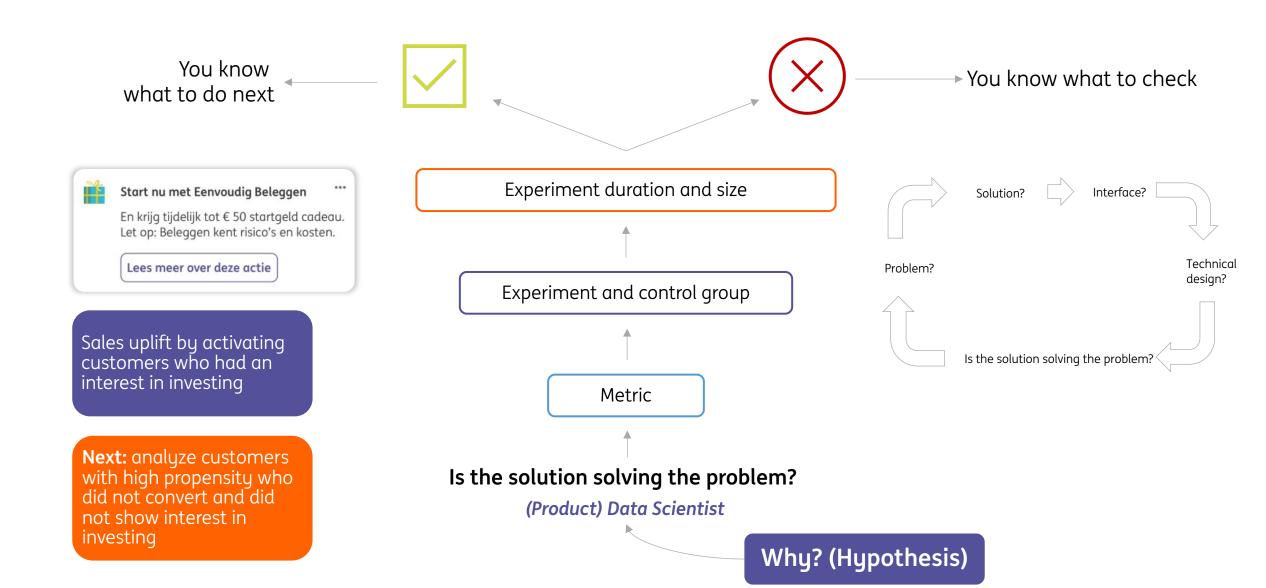


Who converted recently?

Who did not convert?

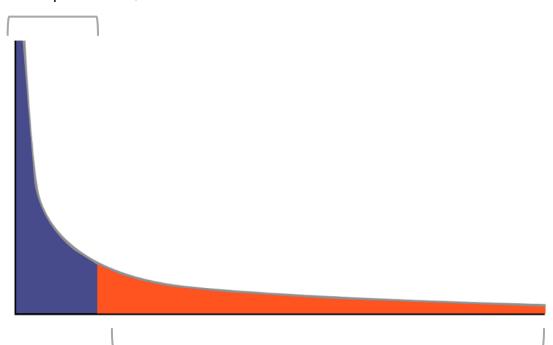
Cross-sell opportunities?



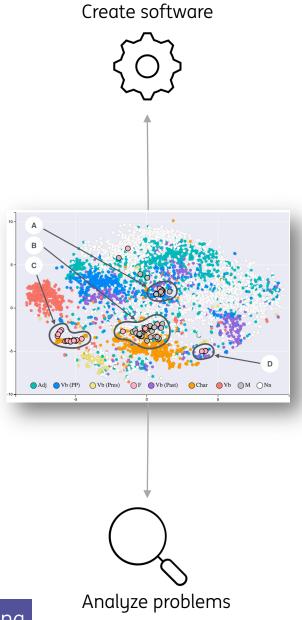


Power users

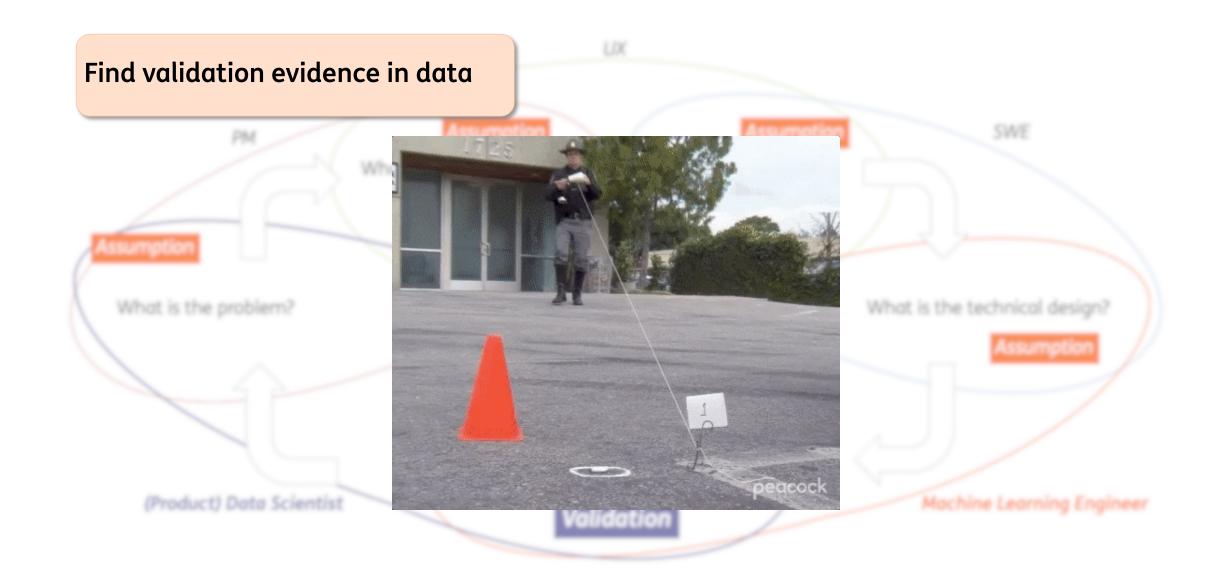
Your processes, models and intuition is biased towards them

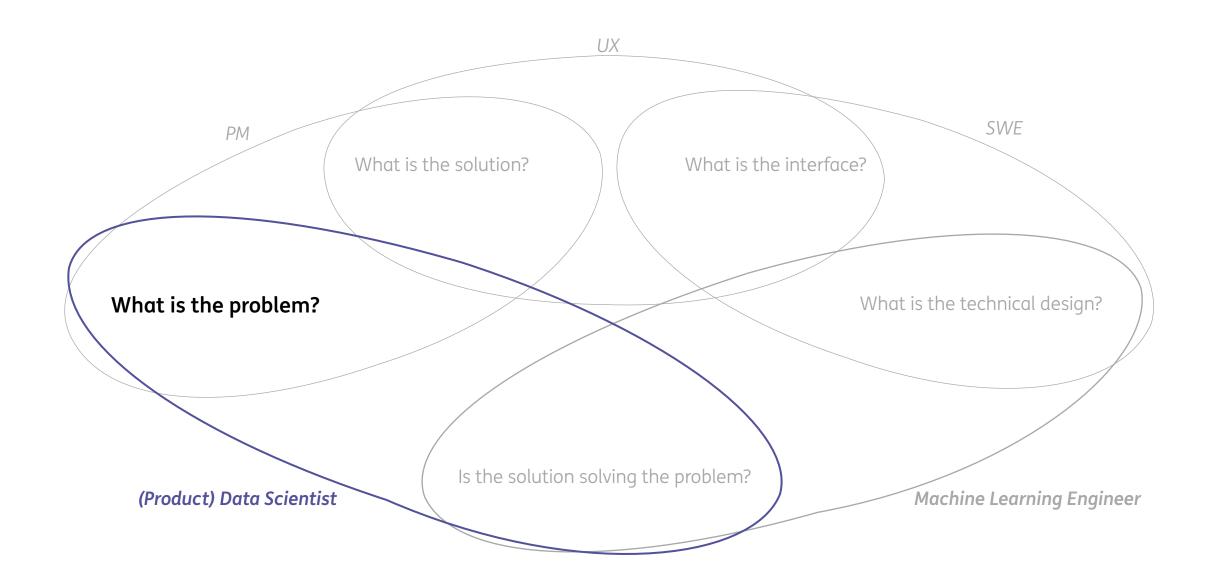


Long tailA lot of opportunities lie here as well



Learning 3: Use your toolset for things **other than** model building



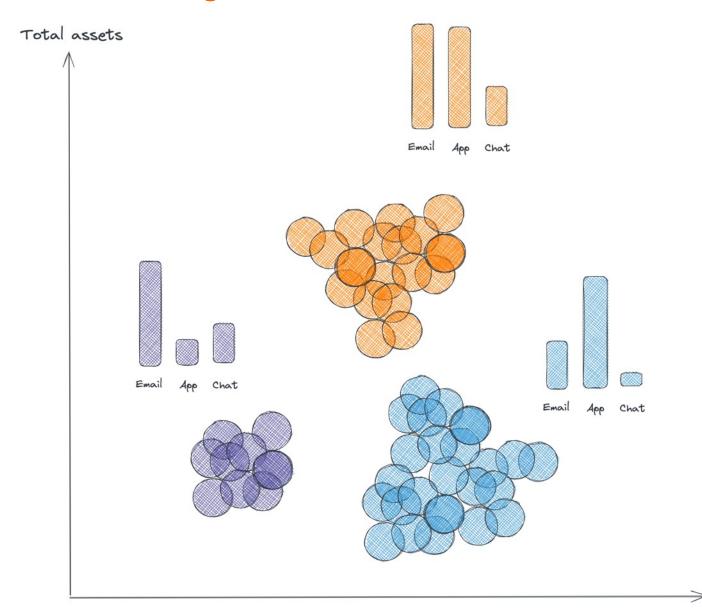


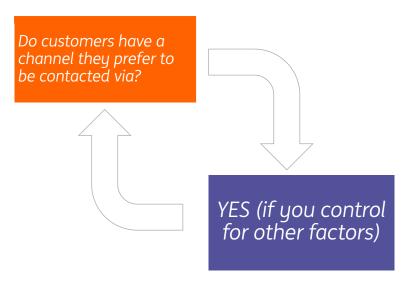
Case: Finding most suitable channel



Do customers have a

Case: Finding most suitable channel





 1^{st} step: K-means clustering on non-channel information 2^{nd} step: Analyze channel usage per cluster

Key takeaways

We make assumptions on every step.

Validate them

Done imperfectly is **way** better than done late

Use your toolset for things other than model building

Slides



do your thing

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