Fundamentals of Machine Learning
Week 8: Working on final project

Jonas Moons

Check-in

Does machine learning allow you to predict...

For how long you listen to a certain song?
Who wrote what and when in a Whatsapp group?
What products you buy in the supermarket?

Find out: visit our poster presentations!

❖ Master Data-Driven Design
❖ Machine learning
❖ Student projects

Thursday 23ʳᵈ January

14:45-15:45

HL15 2.014

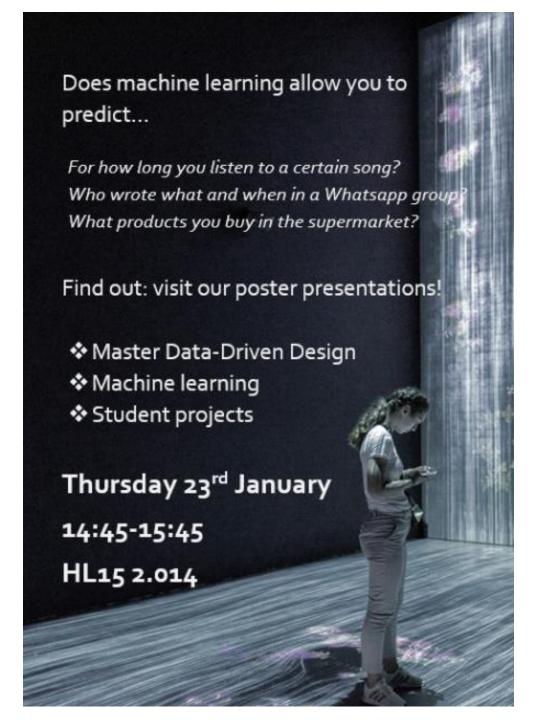# Peer groups

- In same groups of 4 (5 min. each):
    - Share your biggest triumph
    - What are your challenges?
    - State your goal for today
    - Favorite color

- Check-in at **11:30h**

- I will be here 8:30-12:15 and from 14:15 onwards

Tips for project

- Not graded on predictive performance
  - But on what efforts you make to improve performance

- Look at evaluation form

- Resit is new project

Possible improvements

Domain	Improvements
Data cleaning	• Extra data sources • Variable transformations • Feature engineering using referenced domain / machine learning literature
Exploratory data analysis	• Interesting patterns • Attractive graphs
Model building	• Parameter setting (systematic way) • Using referenced literature
Evaluation	• Cross-validation • Explore effect of variables • Explore edge cases
Documentation	• Correct statistical jargon • Clear academic writing

Check-in

- Biggest breakthrough

- Remaining challenges

- Favorite Beatles song (& why)