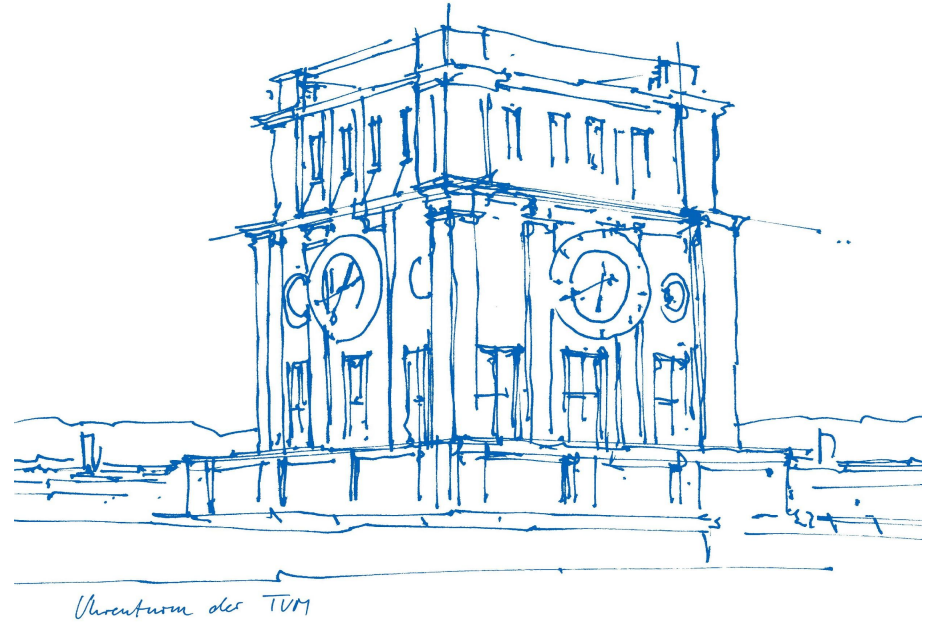


Group Project - Some Details

Lernen von Daten und Lineare Algebra
Klaus Diepold



Task

Work on Oktoberfest Dataset!



Data:

- Features: year, duration, beer price/consumption, visitors (total/day)
- From years 1985 to 2017

Analyze

- Visualize relationships between features
- Features: year, duration, beer price/consumption, visitors (total/day)

Learn

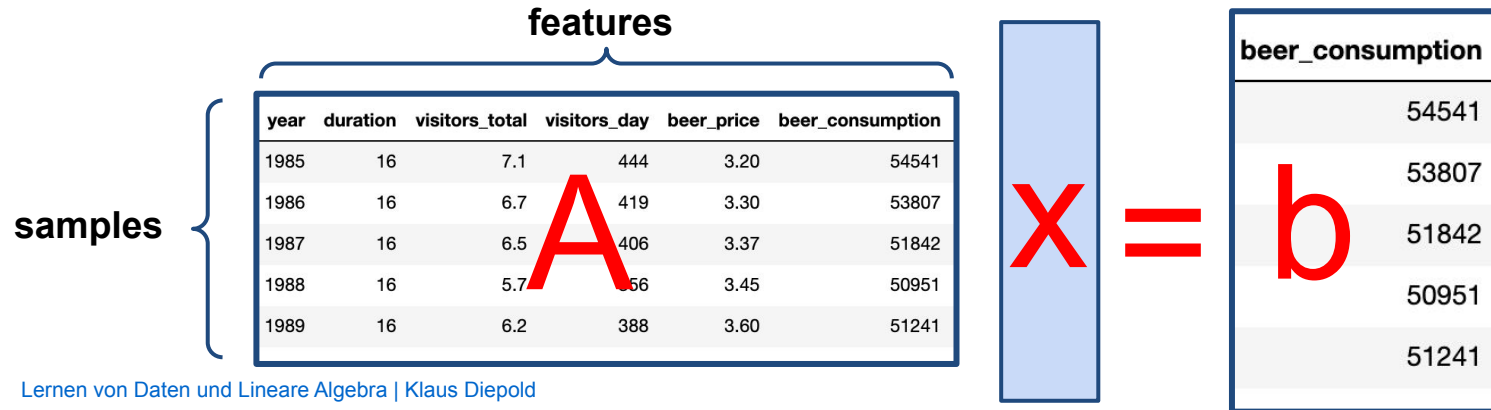
- Can we predict the beer consumption of 2020?
- What features are essential and which not?



Learn from Data

Samples: One sample from each year
Features/Variables: Hold information about duration, beer price/consumption, visitors (total/day)

Learn best fitting x with Least-Squares Regression



Analyze Data

Look into the data matrix A

Create plots

Factorize A with LU, SVD, etc.

Think about which features are necessary
and which not

