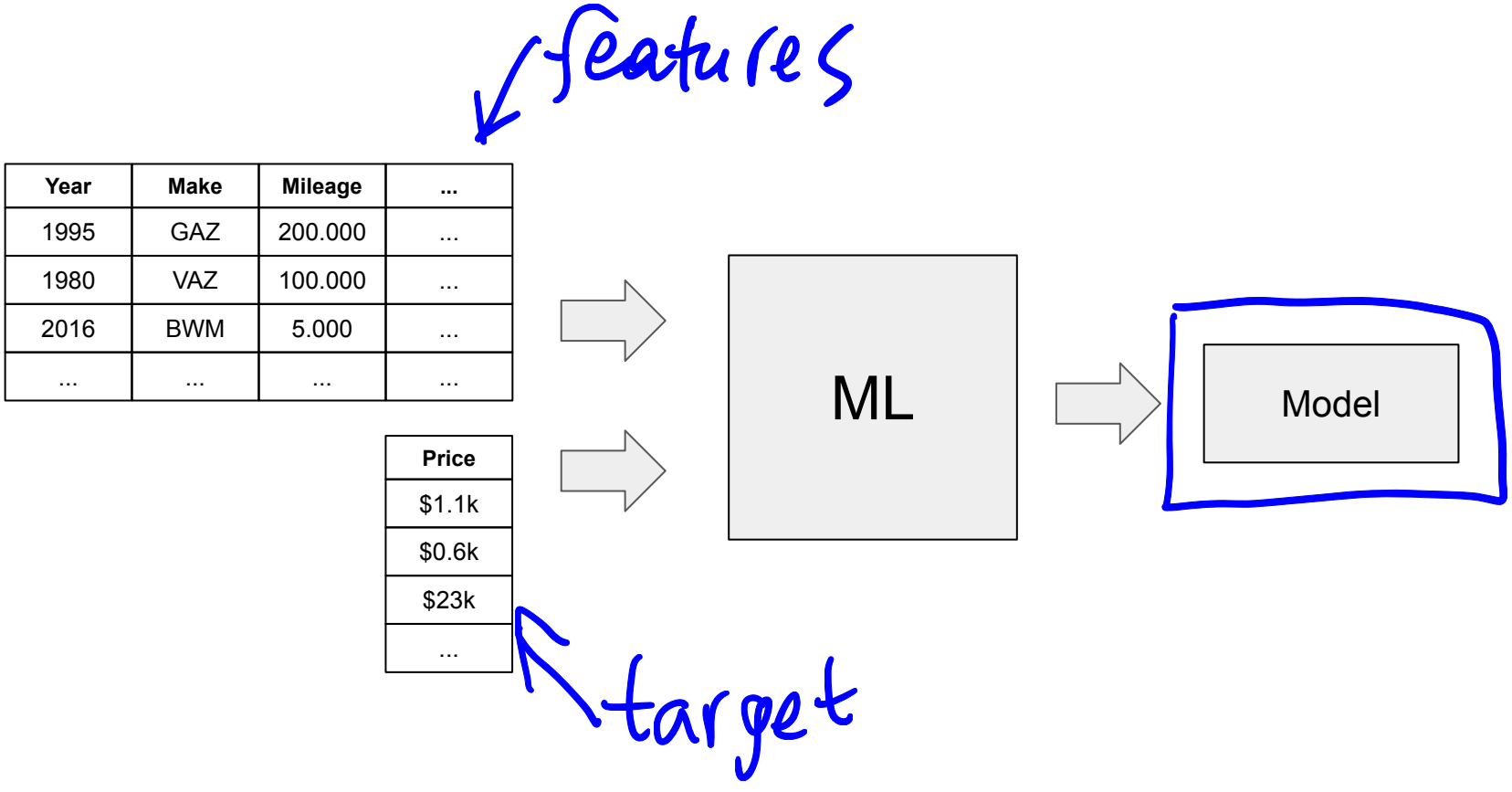
Machine Learning Zoomcamp

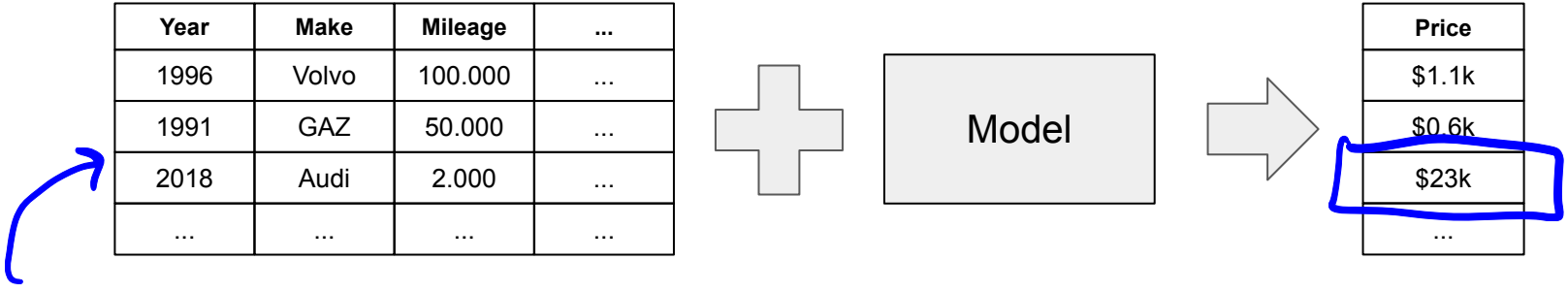
Session #1 Summary

DataTalks.Club

1.1 Introduction to ML



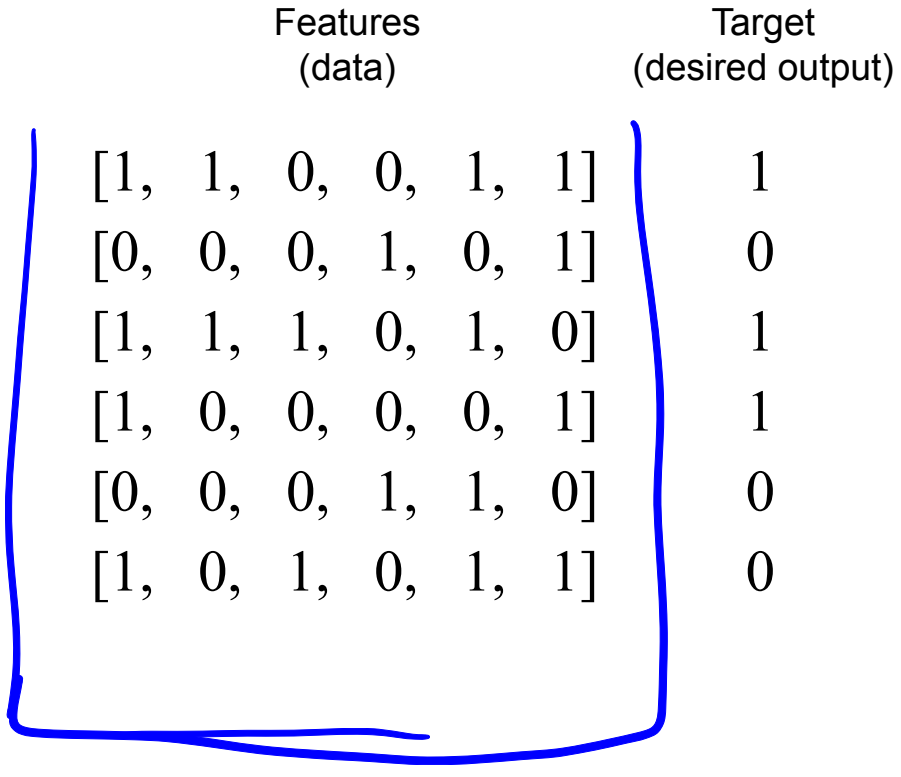
1.1 Introduction to ML



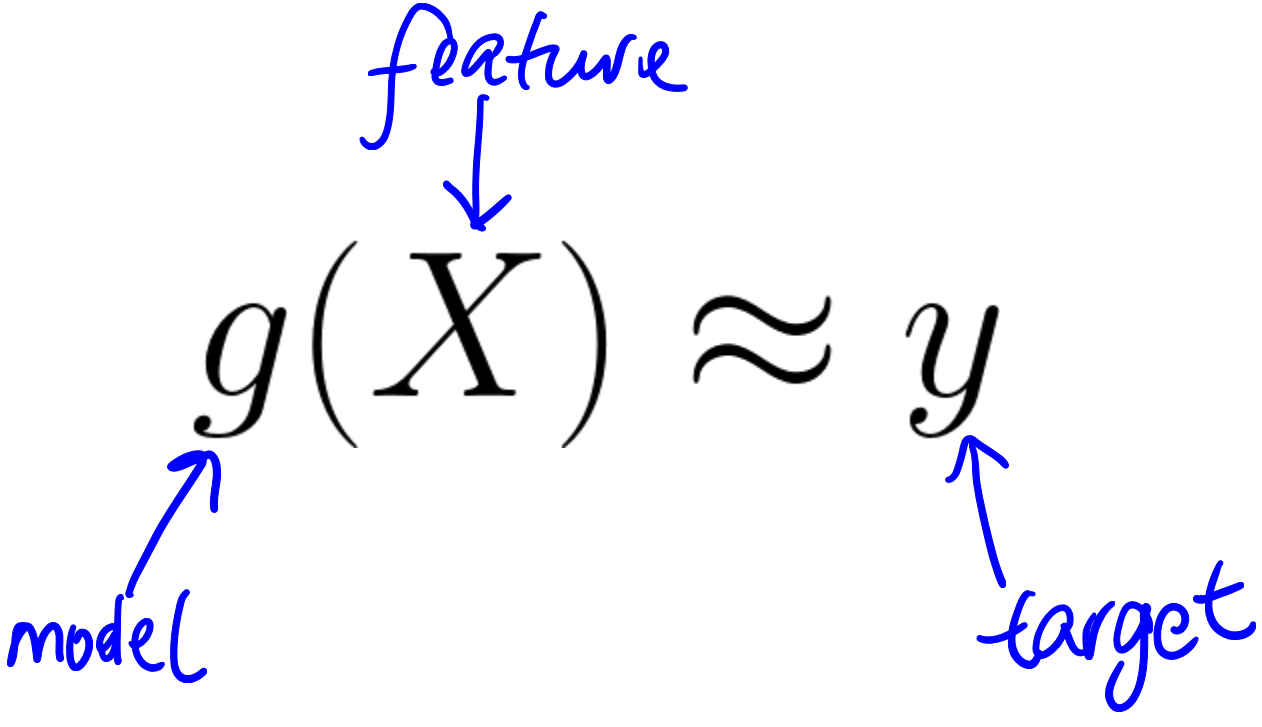
1.2 Rules vs ML

- If sender = promotions@online.com then “spam”
- If title contains “tax review” and sender domain is “online.com” then “spam”
- If body contains a word “deposit”
  - **If sender domain is “test.com” then “spam”**
  - **If body >= 100 words then spam**
- Otherwise, “good email”

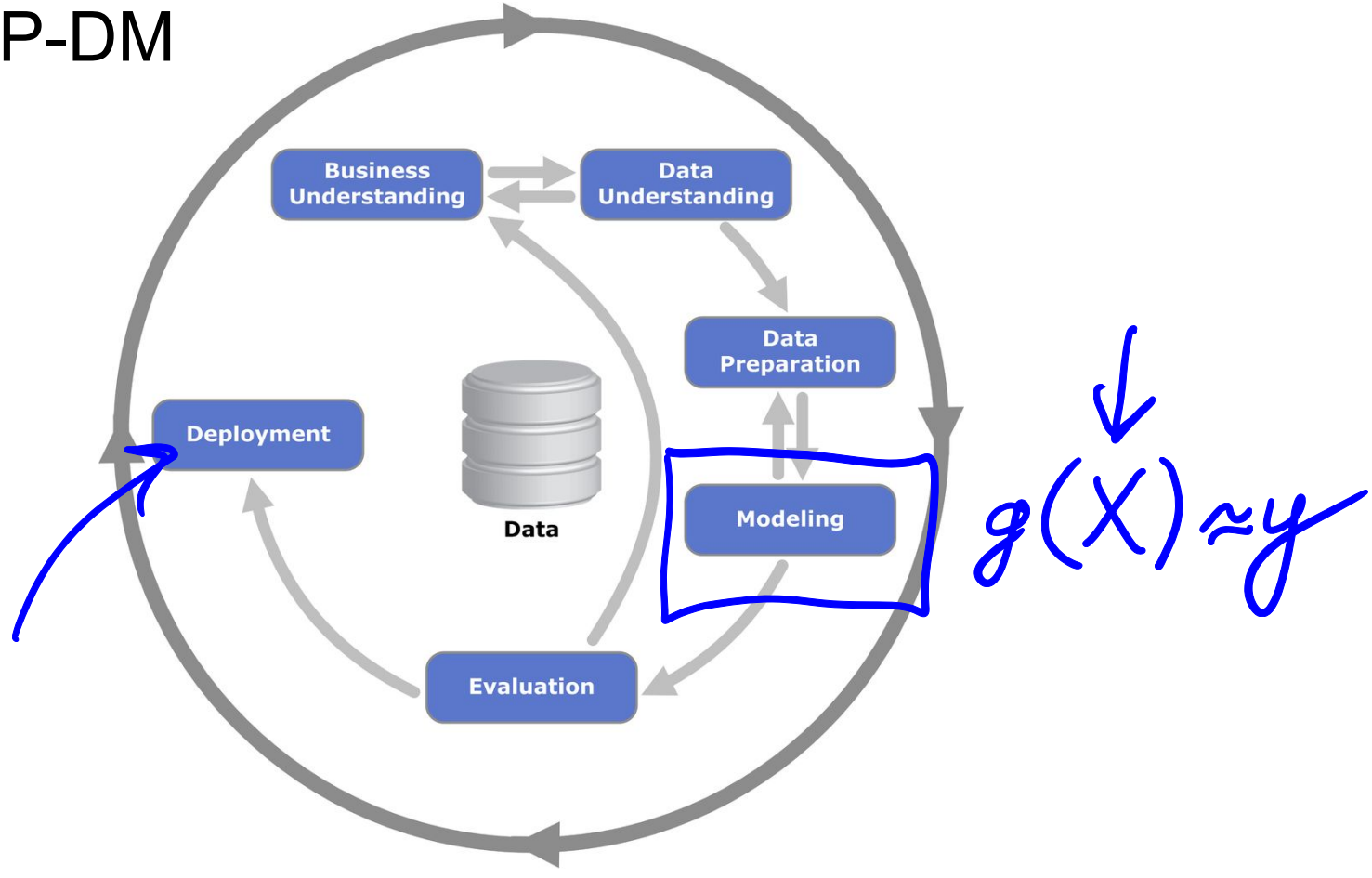
1.2 Rules vs ML



1.3 Supervised Machine Learning



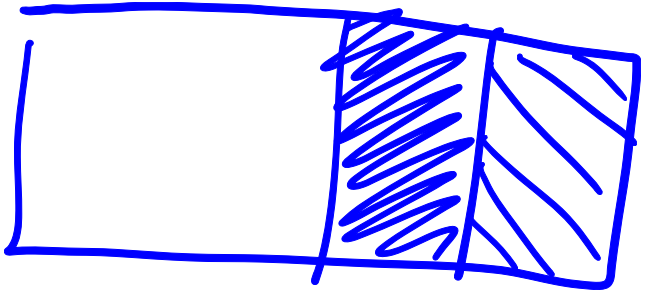
1.4 CRISP-DM



Picture: CRISP-DM

1.5 Model Selection

1. Split data into train/validation/test
2. Train a model
3. Validate it
4. Select the best model
5. Test it



1.6 Environment

- Install Python, Numpy, Pandas, Matplotlib and Scikit-Learn
- Anaconda is the easiest option
- Creating account on AWS

1.7 Introduction to NumPy

1.8 Linear algebra

- Multiplication
- Formulas are not scary when you implement them

1.9 Introduction to Pandas

Next

- Session 2: Car price prediction project