Artificial Intelligence in Practice

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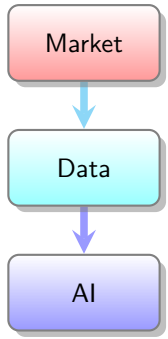
Good market understanding (still) trumps technology



In practice

- Do research (e.g. design thinking, exploratory data analyses)
- Define actions

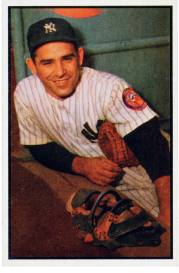
Artificial intelligence and risk: more buzzwords that matter

- Agile: agilemanifesto.org
- TDD: Kent Beck, *Test Driven Development: By Example*
- DevOps: Google's *Site Reliability Engineering*

Source:
`https://commons.wikimedia.org/wiki/File:Codex_Aemilianensis.jpg`

Standard Model Metrics (Almost) Never Matter

- Accuracy [ATPPL16, MVW19]
- ROC-AUC
- Translation into business impact
- Model performance in the wild, or life is not a Kaggle competition



In theory, there is no difference between theory and practice.
In practice, there is.
Yogi Berra

Deploying AI

Is deploying AI different?

No, since it is still is software

- Manage dependencies, e.g. workshop material, polytope packages
- Library + app, e.g. 12 Factor App

Yes, since it is not standard software

- Python
- Model maintenance

References I

[ATPPL16] Nikolaos Aletras, Dimitrios Tsarapatsanis, Daniel Preoțiuc-Pietro, and Vasileios Lampos, *Predicting judicial decisions of the european court of human rights: A natural language processing perspective*, PeerJ Computer Science **2** (2016), e93.

[MVW19] Masha Medvedeva, Michel Vols, and Martijn Wieling, *Using machine learning to predict decisions of the european court of human rights*, Artificial Intelligence and Law (2019).