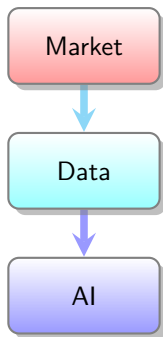


Artificial Intelligence in Practice

Dr. Paul Larsen

February 23, 2020

Good market understanding (still) trumps technology

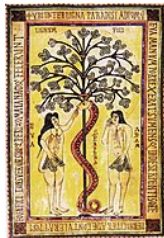


In practice

- 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*

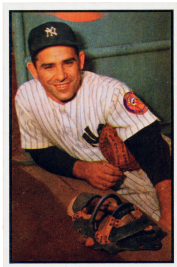


Source:

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

Yes, since it is not standard software

- Python
- Model maintenance

References I

- [ATPPL16] Nikolaos Aletras, Dimitrios Tsarapatsanis, Daniel Preoțiuc-Pietro, and Vasileios Lamos, *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).