Effective Programming Practices for Economists

Data Analysis in Python

Python's Data Analysis Ecosystem

Janoś Gabler, Hans-Martin von Gaudecker, and Tim Mensinger

Data ecosystem in Python

- pandas
- polars
- pyarrow
- sqlalchemy
- DuckDB
- **-** ...

Econometrics stack

- statsmodels
- linearmodels
- specialised
 - quantecon
 - estimagic
 - pyblp
- **-** ...

Basic machine learning stack

- scikit-learn
- xgboost
- sktime
- keras
- pymc
- **-** ...

Advanced machine learning stack

- jax
- flax
- pytorch
- torchvision
- transformers
- **-** ...