Effective Programming Practices for Economists

Data Analysis in Python

Python's Data Analysis Ecosystem

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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

- ...