AOTY Prediction Pipeline

Raw CSV
all_albums_full.csv

Schema Validation
Pandera

Cleaning Rules
exclusions

Temporal Split
within-artist

Artist-Disjoint Split
holdout artists

Temporal Features
5 features

Artist Features
LOO stats

Categorical Features
genre, type

Hierarchical Model
artist effects, priors

MCMC Sampling
4 chains

GPU Acceleration
JAX / NumPyro

refine

Convergence
R-hat, ESS

LOO-CV
PSIS

Calibration
coverage

Predictions + Uncertainty
credible intervals

Legend:
- Data Input
- Features
- Model
- Validation
- Output