DEBUG:cmdstanpy:input tempfile: /tmp/tmpr1qan339/ng6xgki2.json

Modeling 18 apps covering ~95.1% of DAU

Resuming; skipping 15 completed apps…

[Quora] skip (done).

[Reddit] skip (done).

[Snapchat] skip (done).

[WhatsApp] skip (done).

[Pinterest] skip (done).

[LinkedIn] skip (done).

[WeChat] skip (done).

[X (formerly Twitter)] skip (done).

[Telegram] skip (done).

[TikTok] skip (done).

[Threads] skip (done).

[Facebook] skip (done).

[Instagram] skip (done).

[YouTube] skip (done).

[Twitter] skip (done).

DEBUG:cmdstanpy:input tempfile: /tmp/tmpr1qan339/j5juw6w4.json

DEBUG:cmdstanpy:idx 0

DEBUG:cmdstanpy:running CmdStan, num_threads: None

DEBUG:cmdstanpy:CmdStan args: ['/usr/local/lib/python3.12/dist-packages/prophet/stan_model/prophet_model.bin', 'random', 'seed=2128', 'data', 'file=/tmp/tmpr1qan339/ng6xgki2.json', 'init=/tmp/tmpr1qan339/j5juw6w4.json', 'output', 'file=/tmp/tmpr1qan339/prophet_model_3po6w71/prophet_model-20251025075027.csv', 'method=optimize', 'algorithm=lbfgs', 'iter=10000']

07:50:27 - cmdstanpy - INFO - Chain [1] start processing

INFO:cmdstanpy:Chain [1] start processing

07:50:31 - cmdstanpy - INFO - Chain [1] done processing

INFO:cmdstanpy:Chain [1] done processing

DEBUG:cmdstanpy:input tempfile: /tmp/tmpr1qan339/a9idvnte.json

[Programming Courses app] ✅ saved | α=1.00 | model=ElasticNetCV, ENet α=0.007223, l1_ratio=0.95

DEBUG:cmdstanpy:input tempfile: /tmp/tmpr1qan339/v3c9uqd4.json

DEBUG:cmdstanpy:idx 0

DEBUG:cmdstanpy:running CmdStan, num_threads: None

DEBUG:cmdstanpy:CmdStan args: ['/usr/local/lib/python3.12/dist-packages/prophet/stan_model/prophet_model.bin', 'random', 'seed=89201', 'data', 'file=/tmp/tmpr1qan339/a9idvnte.json', 'init=/tmp/tmpr1qan339/v3c9uqd4.json', 'output', 'file=/tmp/tmpr1qan339/prophet_modello8eod9j/prophet_model-20251025075102.csv', 'method=optimize', 'algorithm=lbfgs', 'iter=10000']

07:51:02 - cmdstanpy - INFO - Chain [1] start processing

INFO:cmdstanpy:Chain [1] start processing

07:51:06 - cmdstanpy - INFO - Chain [1] done processing

INFO:cmdstanpy:Chain [1] done processing

DEBUG:cmdstanpy:input tempfile: /tmp/tmpr1qan339/ak4k8l7k.json

DEBUG:cmdstanpy:input tempfile: /tmp/tmpr1qan339/q2eqklro.json

DEBUG:cmdstanpy:idx 0

DEBUG:cmdstanpy:running CmdStan, num_threads: None

DEBUG:cmdstanpy:CmdStan args: ['/usr/local/lib/python3.12/dist-packages/prophet/stan_model/prophet_model.bin', 'random', 'seed=86696', 'data', 'file=/tmp/tmpr1qan339/ak4k8l7k.json', 'init=/tmp/tmpr1qan339/q2eqklro.json', 'output', 'file=/tmp/tmpr1qan339/prophet_model_pfz44g5/prophet_model-20251025075120.csv', 'method=optimize', 'algorithm=lbfgs', 'iter=10000']

07:51:20 - cmdstanpy - INFO - Chain [1] start processing

INFO:cmdstanpy:Chain [1] start processing

[Science Courses app] ✅ saved | α=0.25 | model=ElasticNetCV, ENet α=0.007084, l1_ratio=0.95

07:51:22 - cmdstanpy - INFO - Chain [1] done processing

INFO:cmdstanpy:Chain [1] done processing

[Health Courses app] ✅ saved | α=0.75 | model=ElasticNetCV, ENet α=0.167, l1_ratio=0.80

(Checkpointed) AGG HOLDOUT (28d) — MAE: 1792.44 | RMSE: 3292.89 | MAPE: 18.68% | Acc: 81.32%

Prophet-only AGG MAPE: 19.89% → ΔMAPE vs Hybrid: +1.21 pts

(After aggregate calibration) — MAE: 1829.61 | RMSE: 3365.73 | MAPE: 18.89% | Acc: 81.11% | c=0.992