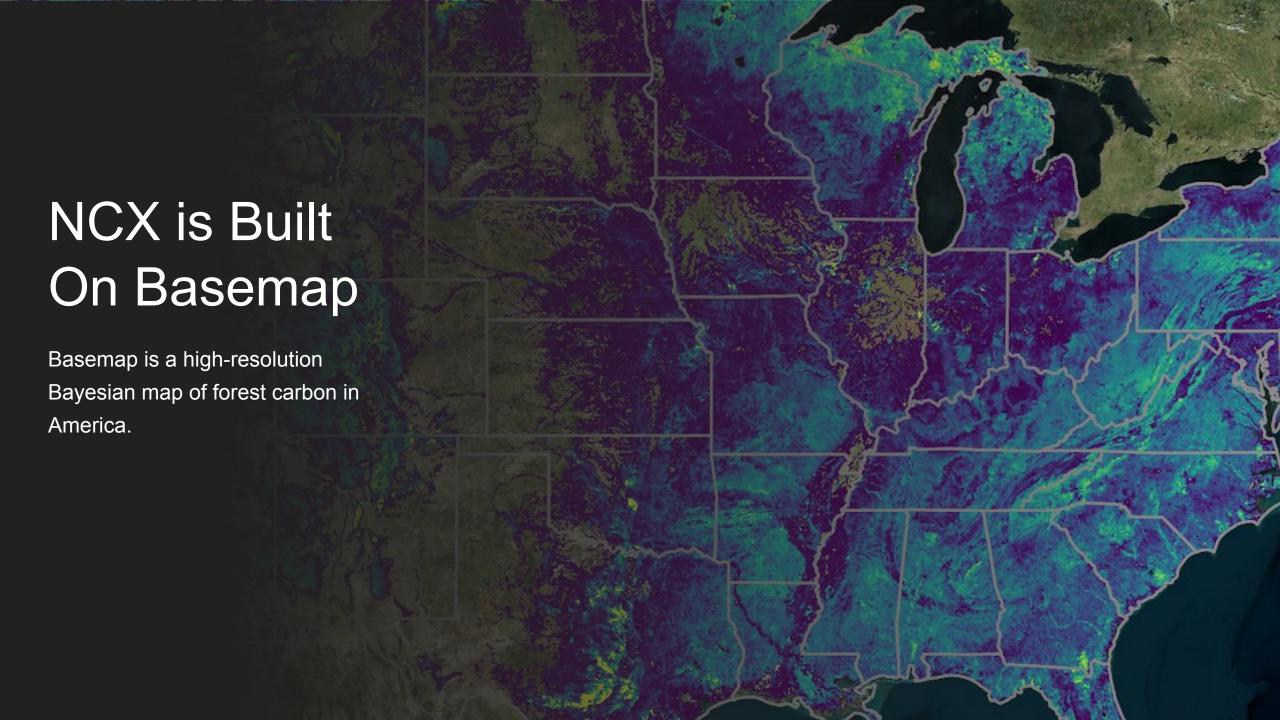


MLOps in a Bayesian workflow Tracking experiments with MLFlow

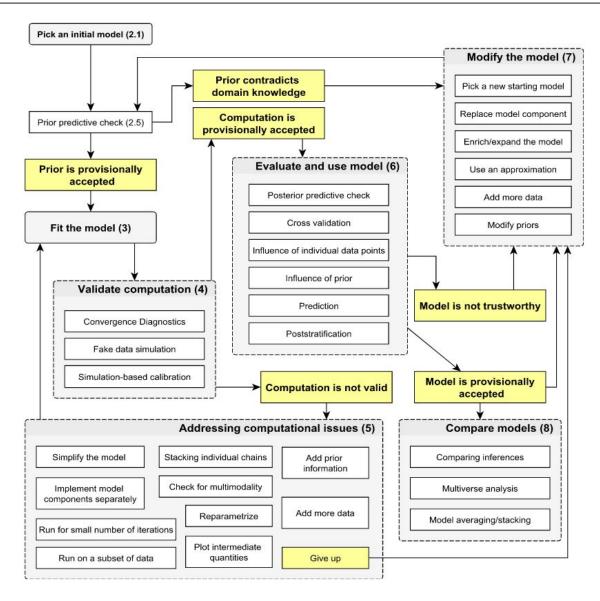
Max Joseph, PhD
Data Scientist, NCX Basemap Team





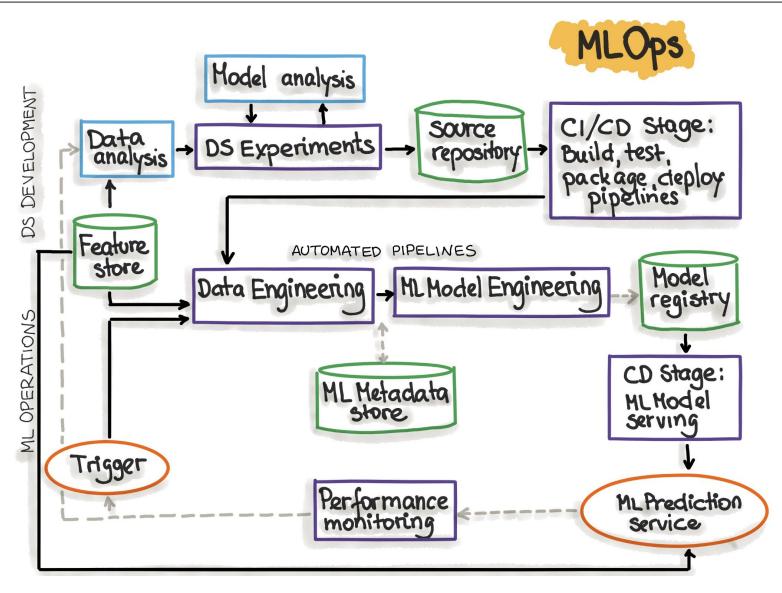
- 1. Overview MLOps & Bayesian workflow
- 2. Tracking experiments with MLFlow
- 3. Demo





Gelman, Andrew, et al. "Bayesian workflow." arXiv preprint arXiv:2011.01808 (2020).

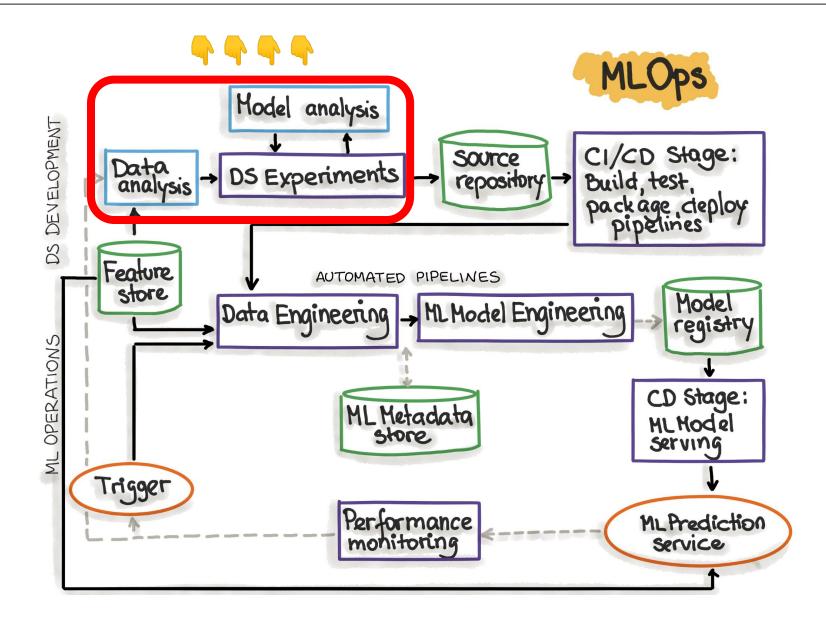




From the excellent ml-ops.org

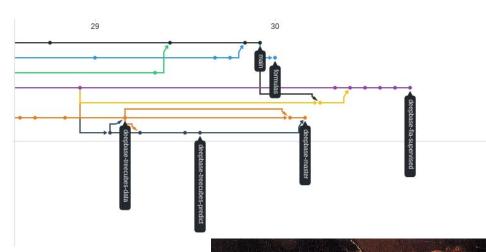
https://ml-ops.org/content/mlops-principles













Name 🔻	Size	Modified	Star
experiment1	0 items	09:03	☆
experiment2	0 items	09:03	☆
experiment3	0 items	09:03	☆

"Hell", Hieronymus Bosch

Log metadata

"What's the experiment"

MCMC sampling

Use Stan

Log metrics

Log elpd, run time, Pareto k, LOO, Rhat, etc.

Log artifacts

Log model object,
predictive checks,
performance diagnostics,
.stan file





https://github.com/mbjoseph/mlflow-stan



Reach out!

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STAN FORUMS

@mbjoseph

