Twitter Thread by Jean de Nyandwi

Jean de Nyandwi
@Jeande_d

Early last year, I wanted to learn about Machine Learning Operations(MLOps).

MLOps refers to the whole processes involved in building and deploying machine learning models reliably.

A thread on the importance of MLOps and resources that I used ■

As you may have heard, models are a tiny part of any typical ML-powered application.

There is nothing that stresses that as this picture:

Source: Hidden Technical Debt in Machine Learning Systems, https://t.co/JDyAr1s3kc

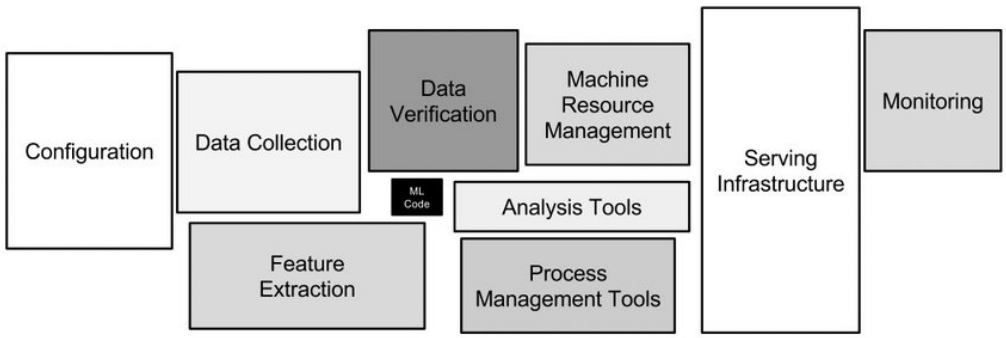


Figure 1: Only a small fraction of real-world ML systems is composed of the ML code, as shown by the small black box in the middle. The required surrounding infrastructure is vast and complex.

There are lots of critical processes that are involved in MLOps such as:

- Data processes: collection, labeling, exploration, preprocessing
- Modeling processes: building, training, evaluation, testing
- Production processes - Serving, monitoring, and maintaining models

MLOps is a new topic for almost anyone. Maintaining models for a prolonged period of time is difficult.

Models are very prone to change. They drift over time. The world (that sources the data) changes, and so data change too.

MLOps is a huge topic. All I wanted was to have a reasonable understanding of it.

Here are 3 resources that I used:

- Machine Learning Engineering book by @burkov
- MLOps Specialization by @DeepLearningAI_
- Introducing MLOps book Oreilly

Here are links for those resources:

- ML Engineering book: https://t.co/L5trxHGAw1
- Introducing MLOps: https://t.co/de4vxdzA5P
- MLOps specialization: https://t.co/46fhFSyEno

I also wrote a couple of blog posts as I was learning it. You can find the blogposts on Medium

https://t.co/DFp6LwqxRV

If you would like to get started with MLOps, I recommend you take MLOps specialization along with one of those books, preferably ML Engineering book.

Also, @MadeWithML by @GokuMohandas contains many hands-on resources for building and productionizing machine learning models.

I can't recommend it enough too!

https://t.co/WjYQpeXcTX

If you have mainly been building models, learning MLOps might be the next good step for you. It's a useful skill to have!

Thanks for reading!

If you would like to see more machine learning content and useful resources, follow me at @Jeande_d.

You can also share the thread with others if you found it helpful. Sharing is caring :)