



3 MLOps Myths

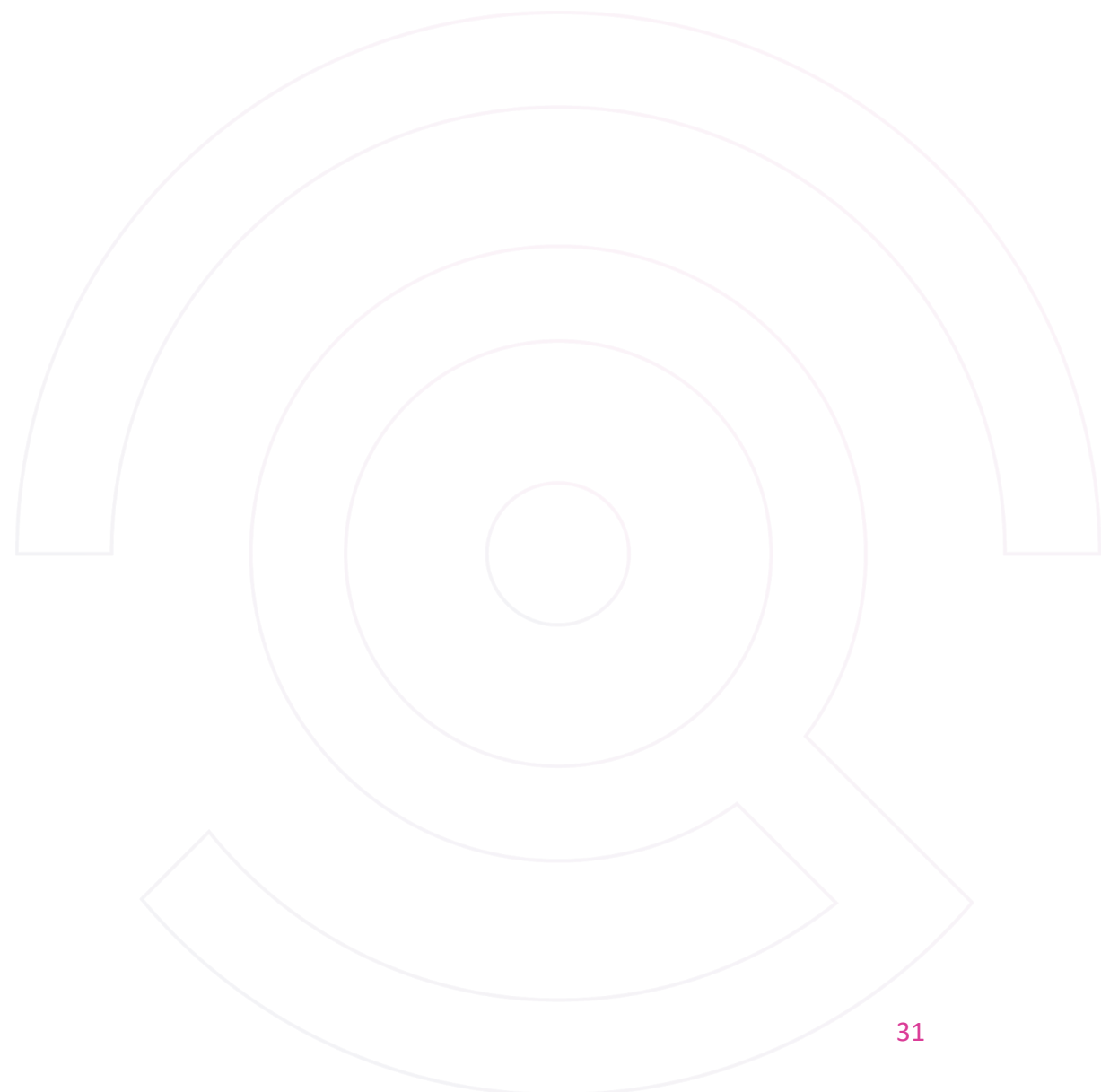


MLOps myths

5 common MLOps myths

MLOps is ...

1. Easy
2. Only useful at scale
3. Too expensive
4. The same as DevOps
5. Not requiring governance





MLOps is easy

There is more to MLOps than deployment

- Many factors dictating the success of ML systems
- Hidden technical debt accumulates over time

There are many factors at play

- Maintaining a model entails maintaining all its components
- Models don't live in an island
- Governance and DevOps integration

DIY culture is detrimental for MLOps

- Is expensive to have all expertise in-house
- MLOps technology is advancing extremely fast



MLOps is only useful at scale

Same issues apply regardless of amount of models

- Good practices should always be present
- Resources might differ but the need for processes is the same

Develop with the future in mind

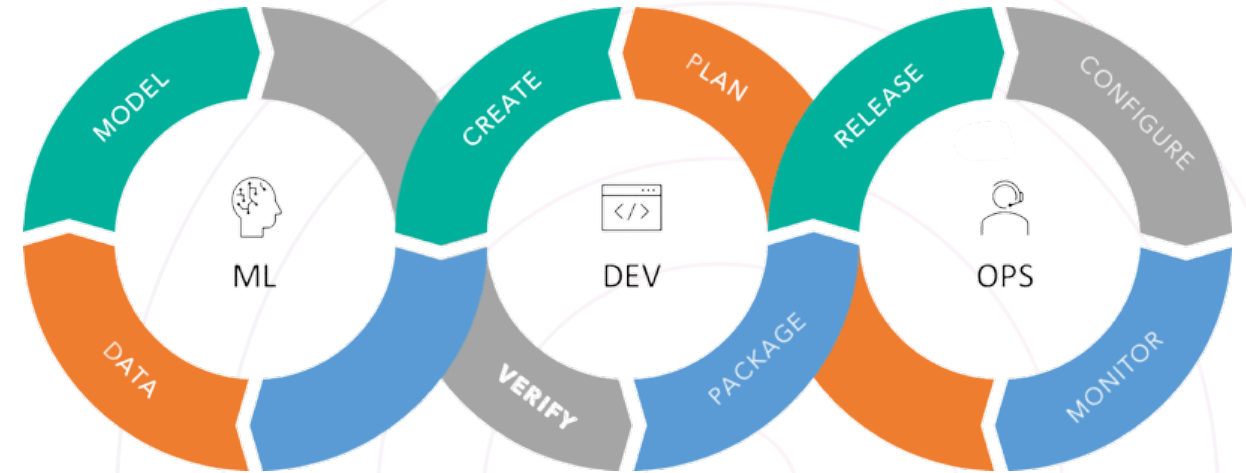
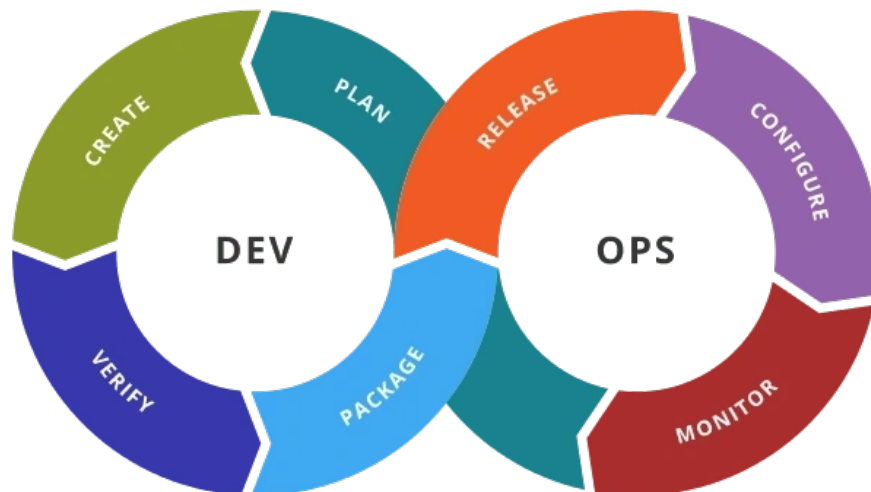
- Having robust pipelines will lower maintenance cost
- Monitoring and auditing is almost impossible
- Processes are easy to smart copy

Maintenance cost grows exponentially

- If deployment and experimentation is not streamlined finding errors is difficult
- Everything becomes an ad-hoc task



MLOps is the same as DevOps



Conceptually similar but ...

MLOps is much more **experimental**

Performance **degradation** of the system

Model **monitoring**

Team composition:

Testing involves model validation



MLOps is expensive

Better to **have and not need** than **need and not have**

You can't afford not to have it

- Adapt rapidly to environmental changes
- Maintainability and auditability is cumbersome without it
- Not only about the tools but also the processes
- Other risks (e.g., operational, reputational)

It becomes more expensive over time

- The more you wait the more difficult is to implement it
- MLOps is not an expense but an investment



MLOps doesn't require governance

ML Governance refers to the policies that organizations set around their models and overall machine learning platforms.

ML systems are complex

- Require data, maybe subject to regulation
- Tend to degenerate over time
- Security issues around them
- Clients might interact or be affected by them

With MLOps, governance isn't manual

- Tools to support this task