5 Breakthroughs to scale ML beyond the limits of experiments

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Today 20% of Enterprises are able to Deploy and to Operate ML models in operation & with Acceptable ROI
1 From Data Lake to Feature Store

Features Store is a **centralized** location to store and document **feature datasets** that will be used in building ML models and can be shared across projects and teams.
2- From Data Science to ML Engineer

The new ML Engineer Role take ML Models developed by Data Scientists, and manage the infrastructure and Operations around Packaging, Testing, Deploying & Monitoring those models.
3- From ML Experiments to MLOps & Coding

ML Operations MLOps is a way of helping enterprises to Scale ML beyond the limits of experimentation
4- From Ethics of AI to Trusted AI

Moral behavior of *humans vs machines*?

Encourage **TRUST** in the **DEVELOPMENT** of AI

- Reproducibility
- Robustness
- Equitability
- Privacy
- Explainability
- Accountability
- Transparency
- Security

**The 8 Principles for Trusted AI – (R)REPEATS**
5- From Private Data Center to ML Hybrid Cloud

The evolution to **Hybrid Cloud** using **Cloud Cluster (K8s)** and **Object Storage (S3)** will accelerate the delivery @ Scale of a cost effective AI services
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