

# MLOPS

In the world of MLOps, while there's much to construct and consider, let's focus on the essential do's and don'ts that truly matter

## DO'S

### VERSION CONTROL

Use version control for code, data, models, and configurations to track progress and guarantee reproducibility.

### CONTINUOUS MONITORING / TESTING

Continuously monitor and test ML models to maintain stable performance and validate regularly against new data to detect concept drift.

### AUTOMATION

Automate the ML pipeline from data preprocessing to model updates to minimize errors and boost efficiency.

### COLLABORATION

Foster teamwork among data scientists, engineers, and operations to smooth the journey from model development to deployment.

### COMPLIANCE

Ensure MLOps practices meet ethical and legal standards, including data privacy and bias mitigation, to uphold trust and integrity in ML applications.

## DON'TS

### IGNORING DATA QUALITY

Don't overlook data quality; it's crucial for model accuracy. Implement thorough cleaning and validation.

### AVOIDING MODEL RETRAINING

Failing to retrain models periodically with fresh data can lead to outdated models that do not reflect current trends or patterns in the data.

### OVERLOOKING SCALABILITY

Systems not built to scale will struggle with growing demands, requiring major redesigns for more complex models.

### SILOED APPROACH

Separating data science and operations teams leads to confusion and delays in the ML workflow.

### RUSHING DEPLOYMENT

Avoid deploying models too quickly without proper testing and validation, as this can cause errors and negatively affect decisions.