



# ADVANCING ANALYTICS



## Building an MLOps platform with Distil8

Are you struggling to ML projects into production?

Are all your ML projects stuck in proof-of-concept phase?

Do you find your models are losing accuracy over time?

If your answer to any of these questions are yes, you may need MLOps!

### WHAT IS MLOPS AND WHY IS IT IMPORTANT?

Machine Learning Operations (MLOps) is a set of practices to efficiently and reliably deploy and maintain ML models in production. It is the difference between a model manually ran on a developers machine and a one running at cloud scale in production. As an organisations Data Science maturity increases, the need for MLOps becomes increasingly more important, yet MLOps remains underinvested in most enterprise customers.

**Our Distil8 addresses all areas of the MLOps lifecycle to build scalability and trust in ML Models.**

EXPLORE

EVALUATE

DEVELOP

MONITOR

DEPLOY

PACKAGE



## SIMPLIFIED TRAINING TO PRODUCTION PIPELINE

Machine Learning (ML) projects start in an experimental phase where Data Scientists focus on testing and tweaking various algorithms, features and modelling techniques but overlook production-ready necessities such as data and model versioning, auditing, environments, scale and unit testing. MLOps is essential for bridging the gap between Data Scientists and DevOps Engineers.

**Distil8 utilises MLFlow and Feature Store to create an audit trail for code, parameters, libraries and data to ensure reproducibility and reusability.**

## ACCELERATED DEPLOYMENT

Whether you have a simple batch Logistic Regression model or a more complex real-time Neural Network with A/B testing, whatever your model requirements, we have defined what best-practice looks like, and we continue to develop a large range of deployment patterns to accelerate model deployment.

**Distil8 enables fast deployment with established deployment patterns that will take you from development to production with minimal disruption.**

**90% of ML projects fail. Talk to us about how we can make sure your next ML project is not another statistic. To learn more about MLOps, Distil8 and how we can help you, please visit [advancinganalytics.co.uk](https://advancinganalytics.co.uk)**

## DRIFT DETECTION

A model is most accurate at the point of training, over time accuracy declines from decay. Model decay will lead to loss of performance, reduced accuracy and eventually reduced trust in the system. Therefore, it is essential to track summary statistics and drift metrics of data in and out the model and identify values that begin to deviate for the data the model was trained on before it becomes a problem.

**At Advancing Analytics, we recognise the importance of monitoring live models for all types of model drift which is why Distil8 has built-in model drift detection to notify you when it is time to retrain your model.**

## COMPLIANCE

For many organisations, traceability, access control, and audit trails are essential to minimize risk, prevent unwanted changes, and ensure regulatory compliance.

**Distil8 incorporates established ML Compliance frameworks such as Fairlearn and SHAP to assure your models are ethical and within the evolving standards as well as ensuring they are performing without bias or risk.**



Gold Cloud Platform  
Gold Data Platform  
Gold Data Analytics  
Silver Application Integration



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