



Outcome: A clear picture of your current level of maturity and readiness for MLOps and a concrete list of immediate remedial actions to move you up the maturity curve and achieve your ambitions

BJSS & MLOPS

BENEFITS OF MLOPS

Organisations that deploy AI and machine learning have improved their profits by up to 15%. But 85% of projects don't make into production. This is often caused by a lack of data availability and quality, operational and technical silos and an inability to demonstrate and explain your models' accuracy. MLOps overcomes these challenges through a reliable & repeatable method that quickly deploys models in weeks rather than months!









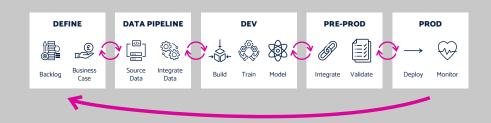


Repeatable Processes Reduced Time to Value Creation

Increased Return on Investment

MLOPS PRINCIPLES

MLOps is DevOps applied to data science and machine learning. It is a holistic approach to designing, experimenting, developing, deploying and managing ML models with a one-team ethos and a goal to reduce operational costs while maximising opportunities.



OUR MLOPS SERVICES

We support you through every phase of your MLOps journey, regardless of your current maturity level.



ADVISE

MLOps Assessment

We provide a four-week assessment of your MLOps readiness and maturity utilising our proven framework. We then issue tailored recommendations based on your unique circumstances

We also provide further strategic advice to support your MLOps strategy, technology selection, roadmap, operating model, change assessment and governance.



BUILD

MLOps Platform Delivery and Transformation

Following a steel-thread approach, we work with your team to select or develop a machine learning model and deploy it while building an MLOps platform containing the required tools and capabilities.

We collaborate closely and work in hybrid teams where possible so expect your colleagues to learn by doing.



RUN

Data Science

We have strong experience supporting clients through MLOps transformations and help you bridge the traditional skills gap, enabling you to create a mature data science capability which delivers long term value.

Once your MLOps model and platform have been deployed, we work with you to ensure they are continuously improved and your data models are kept up to date.

MLOPS ASSESSMENT

Gain a detailed picture of your current MLOps capabilities and concrete recommendations to reach your aspirations through our MLOps assessment.

The assessment is supported by our evaluation framework which examines the six pillars of machine learning operation and gives actionable insight into your level of maturity across 30 criteria:

- > Ways of Working: Are your teams following best practice and able to achieve their objectives?
- > Data & Features: Is your data sufficient, useful and accessible?
- Model: Are your models robust, maintainable and performant?
- > ML Pipelines & Platform: What level of automation can your models rely on?
- > Monitoring & Operations: What solutions do you have in place to keep track of models accuracy over time?
- Security & Governance: What processes and tools do you have in place to manage access to data and secure your platform?

Data & Features

- > Data management
- > Feature management
- > Feature benefits and requirements
- > Test data
- Testing and validation

Model

- > Business case and value
- > Experimentation
- Model performance, bias and explainability
- Model versioning and registry
- Testing and validation

ML Pipeline & Platform

- > Business integration
- > Robust frameworks
- Application deployment and release management
- > Artefacts and dependencies
- Testing and validation

Monitoring & Operations

- > Business validation
- Data, model, cost and system monitoring
- Alerts
- > Operational support team
- Incident and defect management

Empowered. Development best practices and community Agile Business value and stakeholder engagement Security, Information Access Management & Governance Data sources, owners and categories Subject centric view Platform security Build security Threat modelling and actions resolved

INDICATIVE ENGAGEMENT

We cover all aspects of your MLOps capabilities through interviews, workshops, code and documentation reviews. Below is a roadmap of what a typical engagement looks like.

Discovery and Scope Confirmation

Maturity Assessment and Initial Recommendations

Write-Up and Final Recommendations

WEEK 1

- Mobilise engagement and map stakeholder landscape
- > Identify data and model owners
- > Review current ML maturity
- Detailed understanding of current scope, processes, data, models, platform and coding practices

WEEK 2

- Review target state ML maturity, tooling, processes and platform
- Identify key business models and associated business value
- > Draft maturity assessment

WEEK 3

- Identify gaps and recommendations
- Complete draft maturity assessment, recommendation report and presentation
- Complete follow-up sessions / missing stakeholder sessions

WEEK 4

- Present draft maturity assessment and recommendation report
- Incorporate feedback and additional items
- Present final recommendation report

Deliverables

The final report will contain an executive summary of the key findings and recommendations, an overall maturity assessment and a detailed evaluation of each of the six pillars and their key components.

Key People

Product Owner, Architect, Lead Data Engineer, Lead Data Scientist, Lead Platform Engineer, Operations, Infosec.

MLOPS ASSESSMENT OUTCOMES & BENEFITS

Outcomes

- Level of current maturity against the six MLOps maturity pillars with a clear explanation for each score
- Recommended level of maturity against current MLOps aspirations
- Actionable prioritised recommendations for immediate remedial actions to improve current level of maturity

Benefit:

- Excellent understanding of the root causes for the challenges you've faced around data science and machine learning
- A clear way forward immediately after the assessment
- Outcomes are tailored to your organisation and developed in collaboration with you and your team
- Ability to move from the 85% project failure group to the 15% success group

MATURITY LEVELS

We move you from a position of failure to success.

HIGH

- Full automated model deployment
- One team ethos
- Frequent releases
- > Automated performance monitoring

Outcome:

- > High quality models
- Low cost to innovate
- > Higher throughput of models released
- Increased revenue and profit

MEDIUM

- Re-usable components
- Automated pipelines
- Automated data and model validation
- > Increased number of releases
- Manual performance monitoring

Outcome:

- > Experimentation speed increased
- Quality issues improved, throughput still constrained

LOW

- Manual deployment of models
- Dependencies on key individuals
- Siloed data science and operations
- > Infrequent releases
- > No performance monitoring

Outcome:

- Quality issues with deployed models
- High cost to innovate
- Long timelines to release new models

MLOPS SUCCESS STORIES

We support some of the world's leading organisations to become successful with MLOps.



Major Retail Bank

Reducing time to deploy a model from 15 months to two months.



Insurance Company

"The learnings shared have been in the ways of working, understanding the science behind our data and we now have a way to iterate through design. It's been an outstanding achievement, considering the short time we've been together!

Head of Data, Major Insurance Company

Trusted by our 80 active clients, we collaborate to deliver complex, innovative technology, engineering and industry solutions that millions of people use every day.



Commodities & Utilities



Financial Services



Health & Social Care



Public Sector



Retail & Consume Markets



Insurance

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>30

Active engagements within Retail & Consumer Markets



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- Data & AlStrategy
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