



Machine Learning Accelerators

Minimise Time to Value

Prioritise Short Time-to-Value Projects

Generate ROIs Immediately or Fail Fast

Prove Value with Proof of Concepts (PoC)

Leverage IP & Accelerators

Maximise Flexibility with Scrum-Agile

Our End-to-End Approach



Opportunity Catalogue

Activities:

- Site Walkthroughs
- Data Landscape Maturity Assessment
- Board Priority Identification
- Business Priority Identification
- Operations Research
- Exploration with SMEs
- Top 10 Cost Drivers
- Top 10 Revenue Drivers

Outputs:

- Opportunity Priority List
- Opportunity Roadmap
- Business Case Development
- Architecture Strategy

Design, Build & Test

- Security by Design & AD
- IOT and Edge Considerations
- Platform Adoption
- Provisioning Environments
- Design Workshops
- Define Architectures
- Network Design
- UX Design
- Disaster Recovery
- Process Design
- Application Development
- SME Validation
- Information Flow
- Dev Ops (CI/CD)
- Testing
- Deployment
- Platform Monitoring
- Change Management
- Documentation

AI & Optimisation

- Reporting
- Master Data Management
- KPI Monitoring
- Dashboards
- Stream Analytics
- Text and Sentiment Analytics
- Image Recognition
- Emotion API
- Natural Language Processing
- Voice Analytics
- Video Analytics
- Model Optimisation
- Machine Learning
- Unsupervised Learning
- Reinforcement Learning
- Decision Support
- Recommendation Engines
- Simulations
- Digital Twins
- Autonomous Control
- Physical Automation

Business Transformation

- Return on Investment
- Operational Efficiency
- Additional Revenue
- Reduced Cost
- Increased Customer Satisfaction
- Increased Market Share
- Board & Executive Assurance
- Risk Mitigation

Machine Learning Accelerators

Minimise Time-to-Value by Leveraging on our ML Accelerators and Experience

Pre-Built Features and Methods

- Automated Exploratory Data Analysis.
- Hundreds of critical time-based features including MoM, QoQ, YoY, Day, Month, Seasonality, Public Holidays and much more.
- Business Features such as financial views, sales views and product grouping considerations.
- Tried and Tested rollback windows and cross-validation methods.
- APIs, Connectors, ML Pipelines and Architectural Templates for Azure
- Data Cleansing and Error Detection.

Pre-Built Accuracy Improvement and Computational Efficiency Methods

- Pre-designed methods for combining predictive models to increase accuracy and performance (for example, the combination of XGBoost and ElasticNet models).
- Ensembled Neural Networks Methods.
- Hyper-parameterisation and Tuning Guides.
- Efficient, Low Overhead Scenario Modellers.

AI Consulting Group ML Framework

