Forecasting ML Model

Our End-to-End Approach

AI CONSULTING GROUP

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

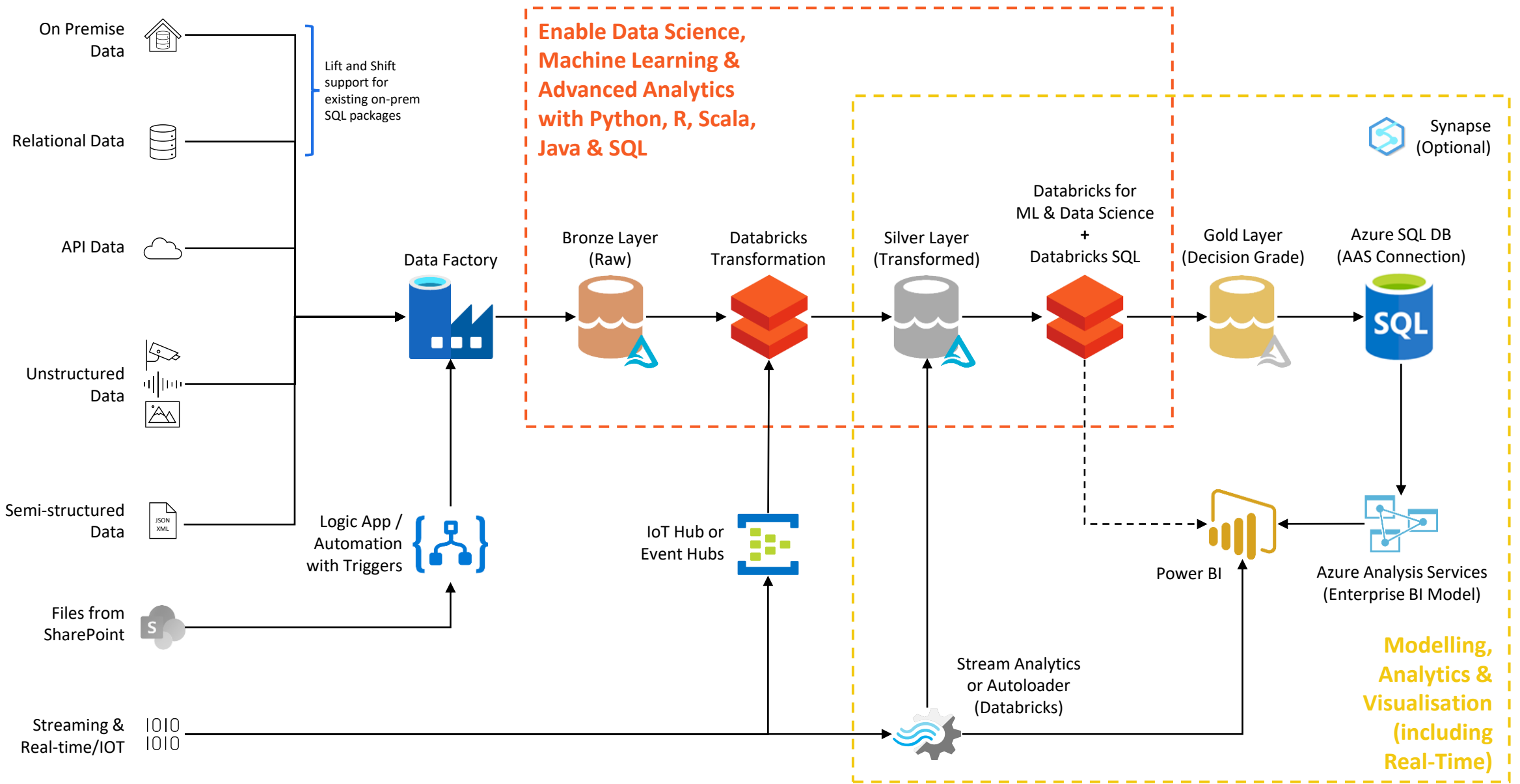Minimise Time-to-Value by Leveraging our ML Accelerators and Experience...

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

5-Day Data Lakehouse Implementation (Azure EBI)

AI Consulting Group ML Framework
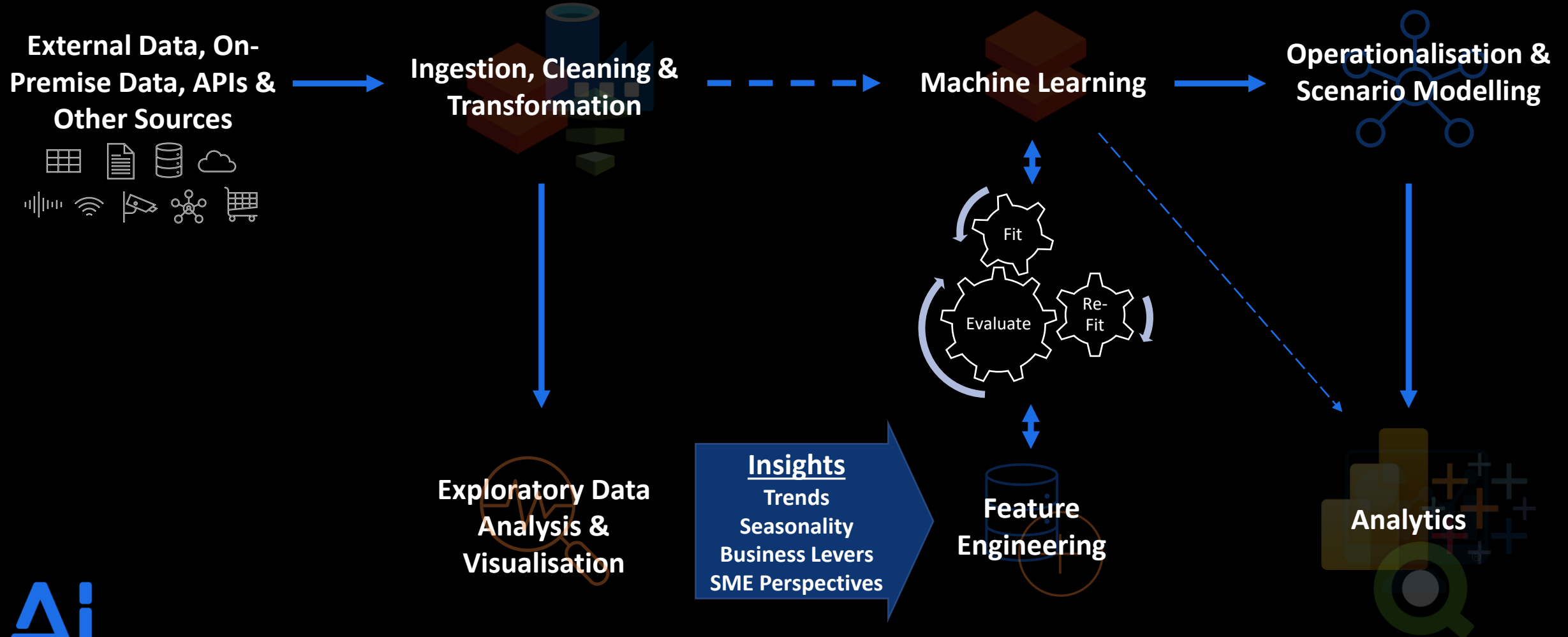
Agile Delivery for Maximum Business Flexibility

Urgent Feedback and Removal of Blockers

Input from Client Team, SMEs, Executives and Stakeholders

Weekly Budget & Progress Status Reporting, Source Control, RAID Registers (Risks, Actions, Issues Decisions), Approvals Register, Peer Review Sign-Off and other Important Feedback

- What was done in the last 24 hours?
- What will be done in the next 24 hours?
- Any issues and/or blockers?

Daily Stand-up Meeting

Client Product Owner or Program Manager

2-3 Week Sprints

Sprint Reviews

Product Backlog

| Backlog Item 1 |
| Backlog Item 2 |
| Backlog Item 3 |
| Backlog Item 4 |
| Backlog Item 5 |
| Backlog Item 6 |
| Backlog Item 7 |
| Backlog Item 8 |
| Backlog Item 9 |
| Backlog Item 10 |

Delivery Team

Sprint Planning:
Commitment to Sprint Backlog from Prioritised Product Backlog

Sprint Backlog

| Backlog Item |
| Backlog Item |
| Backlog Item |
| Backlog Item |
| Backlog Item |

Potentially Shippable Product Increment (Sprint Output)

Improvements, Defects, Bugs and New Ideas