



**UBDS
DIGITAL**
A UBDS GROUP COMPANY

DATA AND AI SERVICE OFFERINGS.

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1 UBDS DIGITAL OVERVIEW.

At UBDS Digital, we recognise that technology must not only be cutting-edge but also practical and quick to implement. We specialise in transforming your complex challenges into opportunities, delivering solutions that are not just acceptable but truly exceptional. Our approach ensures that with us, you navigate the intricacies of digital transformation with unwavering confidence and achieve outcomes that surpass expectations. You will never have to compromise on quality, security, and reliability. That is our promise to you.

1.1 Why clients choose UBDS Digital.

At UBDS Digital, we are on a mission. To deliver unparalleled client value, unmatched employee experience and to make a meaningful difference in society.



Always Innovating



Security Obsessed



Industry Expertise



Outcome Centric

1.2 Services that drive innovation

We offer a full spectrum of services designed to guide our clients through every stage of their digital transformation journey. From strategic advisory to innovative design, meticulous implementation, and ongoing management, we deliver end-to-end solutions tailored to meet the unique needs of each organisation.

See a range of our services below.

You can get in touch with us via: frameworks@ubds.com

Website: www.ubdsdigital.com

LinkedIn: <https://www.linkedin.com/company/ubds>

 DIGITAL ADVISORY	 CLOUD	 CYBERSECURITY + COMPLIANCE	 SECURE CONNECTIVITY
- Cloud Business Analysis - Business Change Management and Communication - Cloud Target Operating Model - Cloud Transformation Strategy, Cloud Target Operating Model and Business Case - Digital Strategy - User Centric Design and Innovation	- Application Development and Innovation – Azure and AWS - Application Modernisation – AWS and Azure - Application Portfolio Assessment - Azure Delivery Squad - Cloud Enablement – Azure and AWS Landing Zones - Migration to Azure and AWS - Cloud Adoption Framework - Cloud Delivery Services - Cloud Desktop - Cloud Security - Cloud Services - DevOps as a Service - Microsoft Power Platform – Design, Implementation and Support - Microsoft Dynamics 365 and Power Platform Implementation and managed services. - ServiceNow DevOps and Design Studio Assessment and Requirements Gathering - ServiceNow Governance, Risk and Compliance Implementation Strategy - ServiceNow ITOM Assessment and Requirements Gathering	- PCI DSS Compliance - PCI Forensic Investigator - ISO Design, Implementation, Audit and Support - GDPR Consultancy - Third Party Assessments - IASME Cyber Assurance, Cyber Advisor & IoT - NCSC/ISAME Cyber Essentials Basic & Plus - Incident Response Policy, Planning & Playbooks - Cloud Security Assessments - Virtual CISO & DPO - Penetration Testing (VA, Web App, Infra, Mobile, MS365, CREST & CHECK) - Digital Forensics and Incident Response - Incident Response Retainer - Threat Intelligence - Threat Modelling - Cyber Incident Exercising (Tabletop & Live Play) - Zero Trust – Readiness, Assessment & Implementation - Information Security and Compliance - Microsoft 365 Security Consultancy	- SD-Wan Design, Build and Managed Service - Hosted SD-Wan Networks - SD-Wan, SASE and Cloud Networking Readiness Assessment - SD-Wan Proof of Concept, deployment and business case - Hybrid, Zero Trust and Cloud Networking Design, Implementation and Managed Service - Network Transformation for Cloud Adoption - Cloud and Zero Trust Security Services - Cloud Hybrid Networking - Modernise Endpoints - Secure Access Service Edge (SASE) and SD-WAN for Cloud Adoption

 DATA AND AI	 MANAGED SERVICES	 TECHNOLOGY DELIVERY – P3M
- AI360 - Applied AI and ML Strategy and Implementation - Data Platform Transformation - Microsoft Fabric Implementation and Adoption Framework - Databricks Architecture Assessment and Implementation Roadmap	- Cloud Hosting and FinOps - Modern Workplace and Productivity - Security Operations Centre (SOC) - Security Information and Event Management (SIEM) – Microsoft Sentinel - Unified Cloud and Infrastructure Support - Networks Operation Centre - Cloud Management - Cloud Service, Design and Transition - Penetration Testing as a Service - Compliance as a Service - Managed Dark Web Scanning & Monitoring	- Technology Delivery Services – Portfolio, Programme and Project Management - Project Management Office (PMO) - Implementing Agile Product Delivery

2 AI360.

AI360 provides unparalleled lifecycle management of AIOps, MLOps, and LLMOps with 24/7 support for ML models in government. It streamlines operations with cutting-edge MLOps and LLMOps techniques to ensure efficient, accurate, reliable and compliant AI system performance that is optimised for your use case, as well as energy and cost-efficiency.

KEY FEATURES

- Monitor model performance metrics, latency, energy and cost
- GreenOps built in, providing near-real-time understanding of energy efficiency
- Model selection against core criteria including data integration and governance
- Multi-agent solution development and evaluation
- RAG optimisation and evaluation: understand hallucination rates
- CI/CD integration and full version control
- Optimise LLMs for use cases with in-context learning, fine-tuning, PEFT
- Accelerate inference, improve efficiency with model compression, including reducing layers
- Reinforcement Learning from Human Feedback: one-off expert training or continuous

KEY BENEFITS

- Detect and prevent data-drift, concept-drift and hallucinations
- Critical for high-impact use cases to ensure models remain performant
- Tailor and continuously improve ML with your organisation's domain knowledge
- Guarantee model security, screen responses for data-leaks, toxicity, malicious responses
- Reduce energy consumption and cost-per-run
- Assess energy impact from the business case through to consumption
- Accelerated responses, reducing wait time for users
- Monitoring and support 24/7 through our Operations Centre in Manchester

3 APPLIED AI AND ML STRATEGY AND IMPLEMENTATION.

UBDS Digital is the UK's most trusted implementation partner for applied Machine Learning (ML) in regulated industries with high citizen impact. We train and deploy production-grade ML systems to meet the unique demands of the Public Sector with industry-leading approaches to security, ethics, reliability and model operations.

KEY FEATURES

- Direction: AI and ML business case, strategy and Centre of Excellence
- Data: Data/use case suitability, synthetic data generation/data capture, linking, transformation
- Data: Feature Engineering and data balancing of under-represented classes
- Modelling: model selection, training, testing, error analysis and evaluation
- Modelling: fine-tuning pre-trained models, e.g. Azure Cognitive Services, OpenAI GPT 4.0, Anthropic Claude
- Deployment: Integrate outputs to your applications or custom dashboard/application
- Monitoring: MLOps, detecting and preventing data-drift, concept-drift and other issues
- Augment heritage systems with model insight and automation
- Open-source and cloud-native, including MLFlow, Bedrock, Sagemaker, Azure ML, Databricks

KEY BENEFITS

- Understand and measure tangible value with reliable business case
- Automate the generation of video, image, text and numeric data sets
- Scale and target analysis, summarisation, categorisation, translation across structured/unstructured data
- Prevent fraud/security incidents through pattern recognition and anomaly detection
- Predict critical events before they occur, providing opportunity to intervene
- Optimise inventory and asset management with forecasting and predictive maintenance
- Ensure data suitability and leverage synthetic data to overcome restrictions
- Understand and pro-actively manage hidden model bias or security vulnerabilities
- Measure and control model performance, including rare or minority points
- Cloud-agnostic, including options for On-Premise and edge-compute ML solutions

4 DATA PLATFORM TRANSFORMATION.

UBDS Digital specialises in implementing unified data platforms, leveraging our partnerships with industry giants like Microsoft, AWS, and Databricks, and our market knowledge of emerging and open-source solutions. Our approach is centred on a value- and user-driven approach, whilst enabling flexible architectures that can adapt to new use cases at pace.

KEY FEATURES

- Unified Data Platform Business Case and Strategy
- GreenOps embedded across the platform lifecycle, supporting Net Zero outcomes
- Accelerated time-to-live through leveraging and adapting data reference architectures
- Data catalogue and automated quality monitoring
- Continuous observability of data lineage and data provenance
- Self-service enablement for data teams, owners and stewards
- Low-code, no-code or code-first ETL, data storage and governance tooling
- High-security solutions available for all 3 classification tiers
- Public, Private and On-Premise Data Platform

KEY BENEFITS

- Streamlines operations: Enhances efficiency by consolidating disparate data sources
- Improves decision-making: Provides comprehensive insights for informed policy decisions
- Boosts transparency: Allows public access to non-sensitive government data
- Enhances security: Centralised data management improves data security measures
- Saves resources: Reduces costs associated with maintaining multiple data systems
- Promotes collaboration: Facilitates inter-departmental data sharing and collaboration
- Increases accuracy: Unified platforms reduce errors in data entry
- Facilitates compliance: Easier to meet data handling regulatory requirements
- Supports innovation: Enables development of data-driven public services
- Ensures scalability: Can handle increasing data volumes efficiently

5 MICROSOFT FABRIC IMPLEMENTATION AND ADOPTION FRAMEWORK.

UBDS Digital's Microsoft Fabric Implementation and Adoption service is a comprehensive solution designed to help government departments leverage the power of Microsoft Fabric. Our service includes initial design, setup, data migration, system configuration, and user training. We will provide full knowledge transfer or an optional service management package.

KEY FEATURES

- Options analysis and business case development
- GreenOps embedded across the platform lifecycle, supporting Net Zero Outcomes
- OneLake implementation: configure your lakehouse for unified data storage
- Data Factory setup: designing enterprise scale pipelines/dataflows for data transformation
- Data Science Environments: establish environments for machine learning experiments
- Synapse Warehousing: implement optimised data warehouses for structured organisational data
- Real-Time Analytics: event stream handling and real-time database querying
- Data Activator: drive actions based on conditions in data patterns/thresholds
- Leverage AI for coding and report generation with Copilot in Fabric
- Industry Solutions: specific solutions for healthcare and sustainability reporting

KEY BENEFITS

- Expertise: Microsoft Solutions Partnerships and Specializations, ensuring high-quality implementation and support
- Security: Prioritises data security, aligning with government standards
- Agile Development: Adopts Agile methodologies for continuous improvement and user needs
- Customisation: Tailored design and processes to meet specific departmental needs
- Data Migration: Safely and efficiently transfer legacy data and code
- User Empowerment: comprehensive training for in-house Fabric usage and management
- Ongoing Support: option for continuous guidance and support post-implementation
- Technical Rigour: Ensures robust, reliable, and technically rigorous solutions

- Efficiency: reduced overhead of cloud management
- Innovation: enables business to safely self-serve, unlocking innovation

6 DATABRICKS ARCHITECTURE ASSESSMENT AND IMPLEMENTATION ROADMAP.

This UBDS Digital service provides a comprehensive assessment of your current data architecture and identifies opportunities for leveraging the Databricks platform to enhance data processing, analytics, and machine learning capabilities.

KEY FEATURES

- Evaluation of current data architecture and infrastructure
- Assessment of data ingestion, storage, and processing workflows
- Analysis of data scalability and performance issues
- Identification of integration points for Databricks within existing systems
- Mapping of analytics and business intelligence requirements to Databricks features
- Review of machine learning readiness and tool compatibilities
- Development of a phased implementation roadmap for Databricks adoption
- Consultation on best practices for data governance on Databricks
- Cost-benefit analysis of migrating to or expanding with Databricks
- Recommendations for training and skill development in Databricks technologies

KEY BENEFITS

- Provides a clear picture of current data handling capabilities and limitations
- Identifies key areas where Databricks can optimise data workflows
- Enhances data-driven decision-making with advanced analytics tools
- Improves scalability and performance of data operations
- Enables effective use of Databricks for advanced analytics and BI
- Prepares your team for leveraging machine learning algorithms
- Offers a clear, strategic path for Databricks integration and growth
- Ensures robust data governance and compliance in a Databricks environment
- Demonstrates potential cost savings and efficiency gains with Databricks
- Equips your team with the necessary skills to utilise Databricks effectively

7 MICROSOFT COPILOT READINESS AND ADOPTION FRAMEWORK

Accelerate your AI transformation with UBDS' Microsoft M365 Copilot Adoption Service. From readiness assessments to tailored user enablement strategies, we ensure seamless integration of Copilot into your business processes. Our expert-led implementation enhances productivity, empowers creative collaboration, provides robust security compliance, continuous support, and delivers considerable efficiencies to your organisation.

KEY FEATURES

- Prepare for AI integration with a technical readiness assessment
- Review and configuration of security and data settings
- Determines overall licensing deployment strategy
- Alignment of Copilot with use cases for business functions
- Supports creative collaboration with AI capabilities
- Assures compliance with data security and privacy
- Provides expert-guided, smooth service integration
- Offers ongoing assistance and optimisation, building AI proficiency in staff
- Adapts AI solutions to unique business needs
- Drives organisational change towards AI usage

KEY BENEFITS

- Our service effectively eases companies into Microsoft M365 Copilot
- Expert deployment guidance ensures seamless Copilot integration
- Customised training enhances employee proficiency in Copilot
- Ongoing technical support resolves Copilot-related issues promptly
- Optimised workflows enhance organisational efficiency with Copilot
- High data security standards maintained during Copilot adoption
- Strategic enablement ensures wide and effective Copilot adoption
- Businesses gain a competitive edge with our AI technology
- Time and cost savings in new technology adoption offered
- Continuous service updates improve Copilot efficiency and functionality



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**EXCEPTIONAL OUTCOMES.
NEVER COMPROMISE.**

