Maxson Stephen Mathew

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Linkedin | Portfolio website

SUMMARY

AI & Data Consultant with Master of Data Science and hands-on experience designing and delivering data solutions that drive measurable business outcomes. Proven expertise in developing data models, analytics pipelines, and cloud-based solutions using modern technologies including AWS, Microsoft Azure, Python, and SQL. Demonstrated ability to work closely with business stakeholders to understand challenges and translate them into technical solutions through collaborative project delivery. Strong background in data governance, quality assurance, and agile methodologies with experience supporting both technical teams and executive leadership in data-driven decision making.

SKILLS

AI & Data Solutions Development: Data Models | Analytics Pipelines | AI/ML Model Development | Cloud-Based Solutions | Business Intelligence Architecture | Predictive Analytics.

Cloud Platforms & Technologies: Microsoft Azure (Fabric, Lakehouse) | Google Cloud Platform (BigQuery) | AWS Fundamentals | Multi-Cloud Architecture | Modern Data Engineering.

Technical Problem-Solving: Python (Advanced) | SQL (Advanced) | R | Statistical Analysis | Machine Learning | ETL Pipeline Development | Data Quality Assurance.

Business Analysis & Consulting: Requirements Analysis | Stakeholder Engagement | Business Process Analysis | Technical Solution Design | Client Collaboration | Project Delivery.

Data Visualization & Communication: Power BI | Tableau | Executive Dashboards | Data Storytelling | Technical Documentation | Knowledge Sharing | Training Delivery.

Project Delivery Methodologies: Agile Development | Waterfall | Hybrid Agile | Quality & Risk Management | Cross-Functional Team Leadership.

PROFESSIONAL EXPERIENCE

Research Intern - HR Department *Feb 2024 - Oct 2024*
John Holland Group, Melbourne

- Applied Social Network Analysis (SNA) using NetworkX to identify influential personnel in the organization through centrality metrics, betweenness, and eigenvector centrality measures across 10,000+ employee network.
- Performed advanced feature engineering using SNA metrics and implemented decision tree algorithms for agent-based modeling (ABM) with Mesa framework, incorporating organizational behavior rules to predict workforce dynamics.
- Developed scalable data pipelines using PySpark on Databricks Python notebooks to process high-volume workforce data, implementing distributed computing for network analysis and predictive modeling at enterprise scale.
- Designed and delivered comprehensive analytics solutions using Python, SQL, and Power BI, driving measurable business outcomes with 91% improvement in retention prediction accuracy through evidence-based ABM insights.
- Collaborated closely with business stakeholders across HR, operations, and executive teams to translate complex network analysis findings into actionable workforce strategies and organizational design recommendations.
- Implemented data governance processes including quality assurance frameworks, metadata management, and compliance standards while providing technical training to 15+ business users on advanced analytics interpretation.

Associate System Engineer *Aug 2021 – Dec 2022*
Tata Consultancy Services, **Bengaluru, India**

- Provided production support for Deutsche Bank Belgium's online and mobile banking applications, managing server deployments, monitoring application health, and investigating issues using SQL queries, Unix servers, and Kubernetes/Fabric container logs.
- Generated daily/weekly/monthly business reports using SQL and Excel for operational metrics, providing stakeholder insights that improved system performance monitoring and strategic decision-making.
- Led technical problem-solving initiatives by investigating application issues through distributed logs and database analysis, reducing mean time to resolution by 95% while maintaining 99.5% application uptime.
- Recognized as a valuable team resource by both Deutsche Bank representatives and TCS management for excellent work ethics, technical expertise, and reliable delivery in high-pressure production environments.

EDUCATION

Master of Data Science *Feb 2023 - July 2025*
The University of Melbourne, Parkville, Melbourne
Relevant Coursework: Statistical Machine Learning, Database Management, Cloud Computing, Spatial Data Analytics.

- Led analytics projects generating actionable insights through comprehensive stakeholder collaboration.
- Developed expertise in modern data architectures and business intelligence platforms.

Bachelor of Technology – Computer Science *Aug 2017 - Jul 2021*
Guru Gobind Singh Indraprastha University, Delhi, India

PROJECTS

End-to-End Data Analytics Solution - NYC Taxi Operations Analytics *Aug 2025 - Sept 2025*
Personal Portfolio Project | Modern Data Architecture & Self-Service Analytics

- Built a scalable data pipeline using modern data architecture (Microsoft Fabric Lakehouse), implementing data quality practices and automated testing.
- Developed a comprehensive business intelligence solution with semantic layers enabling self-service analytics for operational reporting.
- Created interactive Power BI dashboards with KPI cards and trend analysis, providing actionable insights for business decision-making.
- Applied data governance principles with version control (GitHub) and comprehensive documentation.
- Demonstrated CI/CD pipeline implementation for automated deployment of analytical solutions.

Vulnerable Drivers in Victoria – Tableau Dashboard *July 2024 - Nov 2024*
Academic Individual Project | University of Melbourne

- **Designed interactive Tableau dashboard** analyzing transport safety data for vulnerable road users across Victoria, supporting public safety decision-making.
- **Analyzed operational performance trends** segmented by severity, demographics, and temporal patterns across multiple user categories.
- **Integrated spatial visualization** with interactive filters, enabling stakeholders to uncover insights for targeted safety initiatives.

Classifying AMI and Troponin Level – Machine Learning with MIMIC-IV *Jul 2024 – Nov 2024*
Academic Group Project | University of Melbourne

- **Developed ETL pipeline** in Python to extract, clean, using BigQuery on GCP, also ensured accuracy of clinical operational data for predictive modeling.
- **Built classification models** (Random Forest, KNN) achieving optimal performance while addressing data quality challenges.
- **Performed statistical analysis** and hypothesis testing to identify key performance indicators and predictive factors.

PROFESSIONAL CERTIFICATIONS

- Databricks Fundamentals Accreditation.
- Deloitte Australia - Data Analytics Job Simulation through Forage.
- AIG - Actuarial Analyst Job Simulation through Forage.
- Machine Learning, Data Science and Deep Learning with Python: Udemy.