David Okeke

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Profile

Analytical STEM graduate with experience in forecasting, scheduling, and process optimisation. Skilled in Python, PowerBI, and Excel, with a proven ability to design models and dashboards that improve resource planning and decision-making. Project work in healthcare analytics demonstrated how predictive insights can reduce risks, optimise capacity, and improve outcomes. Experienced in supporting cross-functional teams and translating technical insights into actionable business outcomes.

Education

Kristianstad University Aug 2022 – Jun 2025
B.Sc. Computer Science (2:1) *Kristianstad, Sweden*

- **Relevant Coursework:** Machine Learning, Big Data Analytics, Mathematical Statistics, Database Techniques
- **Final Thesis – Predicting U.S. Domestic Flight Delays using Machine Learning:** Developed ML pipeline for delay forecasting, applying techniques transferable to capacity planning and scheduling accuracy.

Professional Experience

Youngstival Spaces Jan 2025 – July 2025
IT & Mobile Systems Intern *Kristianstad, Sweden*

- Delivered a cloud-integrated platform supporting 100+ concurrent users with 99.9% uptime, improving service reliability for operational planning.
- Designed real-time performance dashboards, providing management with visibility of demand trends and utilisation metrics to support scheduling decisions.
- Implemented risk controls and failover mechanisms, reducing downtime and safeguarding critical system continuity.
- Reduced support queries by 15% through structured reporting and documentation, freeing resources for higher-value activities.

LUDAY SE Sep 2024 – Jan 2025
IT Systems & Development Intern *Gothenburg, Sweden*

- Developed dashboards and reporting tools that gave senior stakeholders visibility of capacity, throughput, and KPIs for resource optimisation.
- Improved database queries and APIs, cutting latency by 30% to accelerate reporting for operational and planning decisions.
- Supported Agile delivery cycles, presenting technical insights as clear planning and performance updates to non-technical stakeholders.
- Contributed to cloud-based scalability improvements, helping reduce operating costs during high-demand periods.

Project Experience

Diabetic Patient Readmission Prediction Jan 2024 – Apr 2024
Academic Research – Predictive Analysis in Healthcare

- Built predictive models (Random Forest, XGBoost) on 50,000+ patient records, achieving ROC-AUC 0.87.
- Applied simulations showing potential to reduce adverse outcomes by 18% and optimise hospital resource allocation, skills transferable to production planning and supply chain optimisation.
- Delivered findings in business-focused reports linking predictive insights to capacity planning and cost savings.

Big Data Risk Forecasting Model May 2023 – Dec 2023
Academic Research – Predictive Analysis

- Processed 5M+ geospatial data points from large-scale multiplayer simulations using Python and Spark, reducing query times by 40%.
- Developed forecasting models (precision 0.81 vs 0.65 baseline) to predict final high-activity zones, enabling proactive allocation of resources and strategic planning in dynamic environments.

- Created interactive dashboards and heatmaps to visualise concentration points and risk areas, improving decision-making under changing conditions.

Mental Health & Well-Being App Jul 2022 – Apr 2023

Healthcare & Well-Being Technology

- Designed and launched a student-focused app with personalised recommendations, guided meditation sessions, and analytics.
- Optimised data retrieval queries to reduce response times by 20%, improving reporting speed.
- Delivered user insights reports that guided programme planning and service improvements.

Skills

- **Data & Analysis**: Python, SQL, Excel, Power BI, Data Modelling, Forecasting
- **Planning & Business Tools**: MS Office (Excel, PowerPoint, Word), Jira, Confluence
- **Programming & Databases**: PostgreSQL, MongoDB, MySQL, TypeScript
- **Process Improvement**: Lean principles, Continuous Improvement, KPI tracking

Languages

- **English**: Business Fluent
- **German**: B2, Upper-intermediate
- **Swedish**: A2, Elementary