

## AJIBOLA AYOMIDE ODEYEMI

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### PROFESSIONAL SUMMARY

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Results-driven Quantitative Data Analyst with over 3 years of experience transforming complex operational, clinical, and educational datasets into high-impact strategic insights. Proficient in advanced SQL, Python (Machine Learning, XGBoost), R, and enterprise BI tools (Tableau, Power BI). Adept at architecting end-to-end predictive engines, dynamic dashboards, and automated pipelines that reduce reporting times and drive strategic resource allocation. Proven track record of cross-functional collaboration to deliver AI-augmented analytical solutions, stochastic risk models, and operational efficiency.

### TECHNICAL SKILLS & EXPERTISE

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- **Data Analysis & Programming:** Advanced SQL (Window Functions, CTEs), Python (Pandas, Scikit-Learn, XGBoost), R, Predictive Modeling, Machine Learning Algorithms, Monte Carlo Simulations, Survival Analysis.
- **Business Intelligence & Reporting:** Tableau, Power BI, Advanced Excel, Executive Dashboard Creation, Data Warehousing, Relational Database Management.
- **Domain Expertise:** Quantitative Finance, Actuarial Risk, SaaS Product Analytics (MRR/NRR Churn), Enrollment & Student Success Analytics, Clinical Data Modeling.
- **Client Success & Operations:** Strategic Consulting, Technical Requirements Translation, Stakeholder Training, Cross-Functional Collaboration, Generative AI for Productivity.

### PORTFOLIO PROJECTS

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**Quantitative Actuarial Health Risk & Fraud Detection Engine** | *Python, SQL, Power BI, Streamlit, XGBoost*

- Architected an end-to-end MLOps pipeline to model institutional financial risk and actuarial pricing across 55,000+ clinical records, completely decoupled from the SQL data warehouse.
- Engineered a heavily regularized XGBoost pricing model and executed 10,000-iteration Monte Carlo simulations to calculate 95% Value-at-Risk (VaR), optimizing capital exposure.
- Deployed an unsupervised Isolation Forest model (contamination=0.02) to detect multidimensional billing fraud and anomalies, served via a decoupled Streamlit UI for real-time underwriting diagnostics.

- Built a macro-level Power BI executive dashboard to visualize systemic capital leakage and VaR thresholds for high-risk cohorts.

### **SaaS Revenue Retention & Predictive Churn Engine** | *Tableau, SQL, Python, LightGBM, HTML/CSS*

- Engineered a dual-layer BI and machine learning architecture tracking Net Revenue Retention (NRR) and Monthly Recurring Revenue (MRR) across 5 relational tables.
- Developed a macro-level Tableau executive dashboard leveraging advanced SQL Window Functions and CTEs to track longitudinal cohort degradation and institutional revenue leakage.
- Trained a LightGBM gradient-boosting pipeline and applied Kaplan-Meier survival analysis to calculate real-time flight risk scores based on dropping product telemetry and support latency.
- Built a custom Streamlit operational terminal enabling Customer Success managers to instantly generate automated, mathematically verified engagement diagnostics.

## **PROFESSIONAL EXPERIENCE**

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### **Data & Business Analyst** *SQI College of ICT / August 2025 – Present*

- Educational Data Analytics: Analyzed educational datasets spanning enrollment, student success, and financial metrics (50,000+ records) to identify strategic trends, directly influencing institutional planning and resource allocation decisions.
- Dashboard & Reporting Solutions: Deployed and maintained 15+ interactive Power BI dashboards using advanced SQL, enabling 20+ academic leaders to self-serve key metrics and reducing manual reporting time by 30%.
- Requirements Translation & Consulting: Served as the primary analytical liaison for cross-functional departments, translating complex business requirements into actionable automated data pipelines.
- AI & Process Efficiency: Leveraged AI chat agents and automated Python scripts to augment analytical productivity, streamlining data extraction processes and accelerating ad-hoc analyses by 40%.

### **Quantitative Researcher & Data Analyst** *Reproductive Biology and Toxicology Research Laboratory (ReBTReL) / Oct 2024 – Present*

- Affiliation: Oasis of Grace Hospital, Nigeria.
- Predictive Modeling & Analysis: Utilized R and Python to evaluate complex, multivariable clinical datasets, deploying inferential statistics to maintain 100% data quality across all research extracts.

- **Survey & Data Modeling:** Designed quantitative methodologies and evaluated massive datasets (10,000+ data points) to identify significant clinical trends, meeting rigorous standards for peer-reviewed institutional research.
- **Cross-Functional Collaboration:** Partnered with an interdisciplinary team of 5+ clinicians and scientists to interpret complex statistical findings, translating raw data into actionable medical recommendations.

### **Operations & Reporting Data Assistant** *Multichoice Nigeria | July 2021 – September 2024*

- **Data Operations Support:** Executed complex SQL queries and utilized enterprise BI tools to process regional datasets across 4 distinct business units, evaluating capacity, financial metrics, and operational performance.
- **Analytics & Reporting:** Generated comprehensive operational reports and process efficiency diagnostics, providing actionable data insights that supported strategic organizational goals.
- **Project Coordination:** Contributed to 10+ concurrent reporting initiatives by independently extracting data and ensuring timely deliverables that supported measurable business improvements.

## **ACADEMIC RESEARCH & CLINICAL AFFILIATIONS**

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### **Published Researcher (Quantitative Analytics)** *Elsevier Journal Publication | 2026*

- **Publication:** Donepezil enhances the testicular protective effect of metformin in diabetic rats by modulating steroidogenic signaling and Bax/Bcl-2/Caspase-3 pathway. (*Steroids*, Vol. 228, 109748).
- **Impact:** Demonstrated elite-level analytical rigor, independent hands-on data manipulation, and the ability to build and evaluate complex predictive models using R for peer-reviewed validation.

### **Founder & Lead Coordinator, Health Research Writing Group** *Independent Academic Collaboration | Present*

- **Oversee methodological design, data integrity, and evidence synthesis** for 5 quantitative research projects, ensuring cross-functional collaboration and independently delivering all analytical outputs.

## **EDUCATION**

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### **Bachelor of Technology (B.Tech) in Physiology** Ladoke Akintola University of Technology | 2025

- **Degree Class:** Second Class Upper
- **Academic Focus:** Advanced Mathematical Modeling, Statistical Analysis, Risk/Variable Assessment, Quantitative Research Methodologies and Biological Systems.

## CERTIFICATIONS

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- **AI for Data Analysis** – Google (Mar 2026)
- **Diploma in Clinical Research Operations** – London HeartbeatsZ Academy, UK (Jan 2026)
- **Microsoft Certified: Power BI Data Analyst Associate** – Microsoft (*In Progress*)
- **AWS Cloud Practitioner** – Amazon Web Services (*In Progress*)
- **Statistical Analysis with R for Public Health** – Imperial College London (*In Progress*)
- **Understanding Research Methods** – University of London (*In Progress*)