

Joshua Agyekum - Business Intelligence Analyst

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Portfolio: <https://kofijoo.github.io>

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English (Fluent), Norwegian (B1)

Permanent Residence & Valid Work Permit in Norway

Professional Summary

Business Intelligence Analyst specializing in financial compliance systems, risk assessment, and enterprise-grade analytics solutions. Expertise in Power BI, Python, and production-level system architecture with proven track record in AML compliance, sanctions screening, and automated reporting. Based in Oslo with valid work authorization and permanent residence status.

Key Skills

Business Intelligence: Power BI, Tableau, DAX, Data Modeling, Risk Analytics

Programming: Python (Pandas, NumPy, FastAPI), SQL Server, Bash, R

Financial Compliance: AML Systems, Sanctions Screening, Risk Scoring, Regulatory Reporting

Analytics: Excel (VBA, Power Pivot), Statistical Analysis, Predictive Models, NLP

Data Functions: Data Cleaning, EDA, Forecasting, Dashboard Design, ETL Pipelines

Cloud & DevOps: AWS (EC2, S3), Docker, GitHub Actions, Linux

Soft Skills: Communication, Project Management, Research

Professional Experience

Data Scientist (Part-time) | JOMACS Tech Academy (Canada) | 2024 - Present

- Built full-stack CRM opportunity tracking system with React, PostgreSQL, and Python forecasting logic
- Developed Power BI dashboards analyzing 25+ variables for workforce analytics and strategic HR decisions

Grocery Associate (Part-time) | Wolt Market Center – Oslo, Norway | 2024 - Present

- Handled live inventory and contributed to logistics workflow optimization
- Ensured accurate reporting and strong customer service in fast-paced environment

Forecasting Intern | ALO7 Education – Ningbo, China | 2020 - 2021

- Delivered Tableau visualizations revealing pricing optimization opportunities from 80+ Airbnb listing attributes
- Designed Excel License Forecasting Model

Projects

Customer Risk Scoring & AML System

- Built risk assessment system with transaction analysis, customer profiling, and AML compliance
- Implemented Python-based scoring algorithms with PEP detection, sanctions screening, and geographic risk factors

SLST - Sanctions Screening Tool

- Developed compliance screening system processing 18,000+ sanctions entries from OFAC, UN, HMT, and EU sources
- Built with FastAPI and advanced NLP for sub-second screening with automated BLOCK/ESCALATE/CLEAR decisions

CRM Opportunity Tracker (Full-stack Simulation)

- Designed CRM lifecycle tool with React, Python, PostgreSQL, and Vercel
- Built forecasting logic for win-rate analysis and renewal tracking

License Forecasting Model (Excel)

- Automated 70% of manual licensing work using pivot dashboards & VBA
- Modeled cost-per-user trends and optimized renewal timelines

Tableau Airbnb Listing Analytics

- Analyzed 80+ variables across location, reviews, pricing, and occupancy risk
- Delivered insights into seasonal pricing and host engagement trends

SQL Data Cleaning Projects

- Cleaned datasets (COVID, housing, career data) using joins, CTEs, window functions
- Standardized raw data for dashboard use and BI reporting
- Created SQL ETL pipelines processing multi-country datasets for comparative analysis and trend identification

Education

MSc - International Relations | Norwegian University of Life Sciences, (2022-2024)

- Coursework: R Programming, Research Methods, Global Political Economy

MSc - Educational Technology | Huzhou University, China (2019-2022)

- Focus: Deep Learning, NLP, Computer Vision in EdTech

BSc - Educational Technology | University of Education, Ghana (2014-2018)

- Coursework: Python, ICT in Education, Educational Systems

Key Certifications

- Power BI Essential Training – LinkedIn Learning (2024)
- Data Analysis with Python (Business Focus) – Coursera (2025)

- AWS Cloud Essentials – AWS & DeepLearning.AI (2025)
- Certified Data Scientist – W3Schools (2024)
- Agile Project Management – Atlassian (2025)
- Excel + GenAI for Business – LinkedIn (2022)

Domain Strengths

- **Financial Services Compliance:** AML/KYC systems, sanctions screening, risk assessment
- **Production-Grade System Development:** FastAPI, enterprise architecture, regulatory reporting
- **Business Intelligence Reporting & Dashboarding:** Power BI, Tableau, automated insights
- **Advanced Analytics:** Python-based scoring algorithms, NLP, predictive modeling
- **Data Engineering:** ETL pipelines, multi-source data integration, performance optimization
- **Research & Innovation:** 3 peer-reviewed publications, cross-cultural business analysis