FRANKLIN IZUCHUKWU CHUKWUEMEKA

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About Me: A passion for applying quantitative analysis and AI solutions to complex operational and financial challenges. With a solid foundation in finance and exceptional proficiency in programming languages and machine learning, I excel in transforming data into actionable insights to drive strategic decision-making and operational excellence.

Experiences:

Technical Team Lead - Centre For Applied Social Sciences, Tartu   [2023 – 2024]

- Led and managed a multidisciplinary team of developers and analysts, overseeing the successful execution of data science projects.
- Conducted thorough testing, validation, and verification processes to ensure the quality, robustness, and reliability of data science and data-driven solutions.
- Communicated project progress, technical concepts, and insights to stakeholders, effectively bridging the gap between technical and non-technical teams.
- Fostered a culture of continuous improvement within the team, encouraging feedback and identifying opportunities for optimization and automation.

Operations Data Analyst - Tipline Environmental Services, Lagos   [2020 – 2023]

- Managed data pipelines and developed models to support operational teams in strategic capacity planning leading to streamlined workflows, avoiding overcapacity.
- Developed and implemented a quadratically constrained linear programming model (QC-LP) to address complex constraint issues related to multiple sink distributions.
- Used AMPL to efficiently solve and optimize the QC-LP model, providing valuable insights for operational planning and decision-making reducing cost by 27%.
- Utilized Python, Excel Spreadsheets and data visualization tools (PowerBI, Looker Studio) for advanced data analysis and compelling storytelling.

Software Developer - Basexcel Technologies, Enugu   [2017 – 2020]

- Proficient in Python and JavaScript web frameworks (Django, React.js), contributing to efficient data pipeline ownership.
- Deployed and managed applications on cloud platforms (AWS, Azure), ensuring robust and scalable solutions for operational analytics.
- Developed and integrated APIs to facilitate seamless data flow and analysis.
- Created and maintained relational databases using SQL, ensuring efficient data storage and retrieval to support backend web development.

Research Assistant - C. O. O University, Uli   [2015 – 2017]

- Assisted Professor Ugochukwu Paul Orajaka in the Department of Entrepreneurship Studies.
- Conducted in-depth data analysis using statistical software (Python, Stata, Matlab) for economic and entrepreneurial research projects.
- Performed econometric analysis to investigate economic relationships and test hypotheses.
- Collaborated with cross-functional teams to gather and interpret data, enhancing the quality and impact of research findings.

Education:

Master's Degree in Quantitative Economics - University of Tartu, Estonia   [2022 – 2024]

Bachelor's Degree in Banking and Finance - C. O. O. University, Nigeria   [2019 – 2021]

Achievements and Awards:

- Successfully increased Quantum Nexus Capital's portfolio by 150% through strategic algorithms and proactive risk management techniques, showcasing expertise in data-driven decision-making.
- Recognized for one of the best theses in the Quantitative Economics MA program of 2024, highlighting advanced analytical and research skills.
- Developed the Automated Survey Analyzer to assist non-technical researchers in real-life projects, demonstrating innovation and technical proficiency.
- Awarded a merit-based, full-tuition scholarship at the University of Tartu in 2022, underscoring academic excellence and dedication.
- Ranked among the top 5 out of 200 graduating students in the Banking and Finance Department of 2016, reflecting strong analytical and academic performance.

Skills and Attributes:

- Technical Skills: Proficient in Python, C#, C++, JavaScript, Stata, R, Excel Spreadsheet, SQL, and data visualization tools (Looker Studio, Power BI).
- Analytical Skills: Advanced predictive modeling, analytical capacity planning, and forecasting experience.
- Communication: Excellent writing and presentation skills, with a proven track record of preparing comprehensive economic reports.
- Cultural Sensitivity: Effective communicator, used to working with diverse teams and showing cultural sensitivity.
- Self-Starter: Demonstrated ability to independently manage workload and contribute proactively to team efforts.

Hobbies:

Board games like chess and sudoku. I also enjoy football and following geopolitical events around the world.

Projects:

Automated Survey Analyzer	Links: Article | Source Code
Culture, ESG Performance and the Environmental Kuznets Curve	Links: Article | Source Code
UI Tests Using Selenium Framework	Links: Source Code
Heterogeneity and Robustness of the Kuznets Curve	Links: Source Code
Sentiment Analysis of Movie Reviews	Links: Article | Source Code
Time Series Analysis of Performance of Environmental-Friendly Stocks	Links: Article | Source Code