



# Zahradeen Nasir Ibrahim, CFA

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## ACADEMIC QUALIFICATIONS

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**Columbia University** – New York, NY  
*Master of Science in Applied Analytics (STEM)*

**December 2022**

**Bayero University Kano** – Kano, Nigeria  
*Bachelor of Science in Economics*

**December 2010**

## SKILLS

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Analytics Tools: Python, R, Tableau, Excel, Canva, PowerPoint, Power BI, QlikView, Total BI, Adobe Premier Pro  
Core Competencies: Data Analytics, Critical thinking, Project Management, Communication, Leadership, Storytelling with Data

## PROFESSIONAL EXPERIENCE

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**Quantitative Analyst, Vice President** *Nabafat AI* | California, United States **Mar 2023 – Date**

- Developed quantitative models to analyze market trends, identify investment opportunities, and optimize portfolio allocation, resulting in enhanced risk-adjusted returns and improved portfolio performance.
- Applied data-driven insights and quantitative tools to assess stock valuations, construct diversified portfolios, and monitor portfolio performance, ensuring alignment with investment objectives and risk tolerance.
- Designing, developing, and implementing quantitative models and algorithms to solve complex business problems.
- Collaborating with data scientists, machine learning engineers, and software developers to design and deploy solutions for clients.
- Working collaboratively with other senior analysts to drive innovation and best practices in quantitative analysis.
- Conducting research and analysis to support the development of new AI solutions and services.
- Analyzing large and complex data sets to extract insights and identify trends.

**Associate, Financial Analysis** *Central Bank of Nigeria* | Abuja, Nigeria **Jan 2018 – Jan 2023**

- Applied advanced machine learning and natural language processing techniques, like text classification, sentiment analysis, and clustering, to analyze and extract insights from business datasets, providing valuable context for business users and stakeholders.
- Optimized a data pipeline, reducing data processing time by 30%, enabling real-time model training and inference
- Presented insights from machine learning projects to senior management, which facilitated data-driven decision-making
- Utilized SQL to process and analyze large datasets, implementing efficient queries and aggregations to extract relevant information for model development and evaluation.
- Designed and implemented multi-stage data pipelines using Python, automating data cleaning, feature engineering, and model training processes to streamline the end-to-end data science workflow.
- Collaborated closely with cross-functional teams, including data engineers, software developers, and business stakeholders, to ensure seamless integration of machine learning models into production infrastructure.
- Developed detailed documentation and user guidelines on the functionality and usage of data science models within the production environment, facilitating easy adoption and understanding by end-users.
- Mentored junior data analysts, providing guidance on model development, coding best practices, and effective data storytelling.
- Analyzed large and complex financial datasets, performed variance analysis, identified trends, and provided recommendations
- Identified opportunities for process automation, implementing tools to streamline workflows and improve efficiency

**Credit Risk Analyst** *Central Bank of Nigeria* | Abuja, Nigeria **Nov 2013 – Dec 2017**

- Carried out model validation on supervised banks' internal ratings-based ECL models and conceptually challenge model assumptions and methodology to ensure that it aligned with internal and regulatory guidelines
- Developed a capital attribution framework for consistent risk capital allocation at a portfolio as well as single security level
- Examined the credit data, financial statements, quality of management, income growth, and debt to income ratio of obligors, risk appetite and risk tolerance level to identify the degree of credit risk involved in lending activities of supervised banks.
- Verified banks' due diligence in loan documentation, validating income, internal audits, completing KYC requirements, credit decision, and reporting details of the degree of risk involved in a loan or credit request before recommending for approval.
- Evaluated the internal framework for assessing, approving, and monitoring creditworthiness of counterparties of supervised banks
- Conducted comprehensive financial instruments valuation utilizing industry-standard methodologies and financial models
- Engaged with and challenged banks to ensure transactions are consistent with internal risk appetite and regulatory expectations
- Established banking industry risk management standards and guidelines as part of a team for the Basel II/III implementation

## PROFESSIONAL QUALIFICATION AND TRAININGS

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<b>Google x MLT Tech Fellow</b> (Tech Equity Collective) – <i>Fellowship</i>	<b>March 2023 – July 2023</b>
<b>Capital Markets Professional Certification</b> (NYIF) – <i>Certificate</i>	<b>December 2021</b>
<b>Financial Soundness Indicators</b> (IMF Institute) – <i>Certificate</i>	<b>September 2019</b>
<b>Chartered Financial Analyst Institute</b> – <i>CFA Charter</i>	<b>August 2019</b>
<b>Practical Insights on Implementation of IFRS 9 and CECL</b> (KPMG) – <i>Bootcamp</i>	<b>August 2019</b>

## RELEVANT PROJECTS

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### Portfolio Optimization Project

- Developed and implemented an advanced portfolio optimization strategy to maximize returns and minimize risks
- Utilized modern portfolio theory, factor modeling, and risk management techniques to achieve superior investment outcomes
- Provided recommendations for portfolio optimization based on risk-return profiles
- Conducted in-depth analysis of investment portfolios, including asset allocation, risk exposure, and performance attribution
- Improved overall portfolio performance, leading to a 15% increase in average returns

### Financial Performance Dashboard

- Designed and developed an interactive financial performance dashboard using tools like Excel, Tableau, or Power BI. Consolidated and visualized key financial metrics, enabling stakeholders to monitor company performance in real-time
- Provided executives with actionable insights, leading to more informed decision-making and a 10% increase in profitability

### Cost Optimization Initiative

- Led a cost optimization project, analyzing cost drivers and identifying areas for cost reduction without compromising on quality
- Collaborated with cross-functional teams to implement cost-saving measures
- Achieved annual cost savings of 8% without affecting product/service quality, enhancing the company's profitability

### Analytics & Finance (Tutoring) Project – Columbia SPS Top 10 Innovative Projects

- Designed to support university students and young professionals who are new to the field of Machine Learning and Finance
- Created video tutorials introducing the basics of Machine Learning Models and Finance in a logical easy to understand manner
- Chosen among the top 10 innovative graduate students projects from Columbia University School of Professional Studies