

Ansto T. Chibamu

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Quantitative Analyst/ Data Scientist

A multifaceted professional with 6+ years' of experience in data analytics, business intelligence, financial engineering, quantitative research, and algorithmic trading

Strategically-minded data scientist with a proven track record of leveraging advanced analytical techniques to tackle complex business challenges across diverse industries, with a focus on finance. Proficient in Python, R, and C#, adeptly applying statistical modeling and machine learning to extract valuable insights from datasets. Experienced in algorithmic trading strategy development and implementation, with a portfolio spanning equities, cryptocurrencies, and FX markets. Skilled in utilizing BI tools for data analysis and visualization. Effective communicator and collaborative team player, adept at leading projects and collaborating with cross-functional teams to drive innovation and deliver actionable solutions.

Core Competencies:

- Data Science & Predictive Modeling
- Algorithmic Trading Strategy Development
- Statistical Analysis & Machine Learning
- Data Visualization & Interpretation
- Data Engineering
- Project Leadership & Collaboration
- Strategic Decision-Making Support
- Client Engagement & Relationship Management
- Technical Proficiency: Python, R, C#, SQL, PowerBI
- Problem-solving & Critical Thinking

Professional Experience

Data Analytics Consultant, 2023 – Present

Freelance, Remote

Designed and implemented data-driven solutions to optimize operational processes and drive business performance improvement across diverse industries. Led end-to-end data analytics and business intelligence projects, from requirements gathering to implementation and evaluation. Provided valuable insights for strategic decision-making by analyzing datasets in domains such as risk management, financial markets, sales, and marketing. Leveraged Python programming, PowerBI, SQL, Excel, and various Business Intelligence tools for data analysis and modeling.

Key Achievements:

- *Risk Management Optimization:* Developed and implemented data-driven risk management solutions, leading to enhanced risk mitigation strategies and improved financial performance for clients.
- *Sales and Marketing Analytics:* Led the analysis of sales and marketing datasets, uncovering key trends and opportunities to optimize marketing campaigns and drive revenue growth.
- *Operational Process Optimization:* Designed and implemented data-driven solutions to streamline operational processes, resulting in increased efficiency and cost savings for client organizations.

Quantitative Analyst, 2017 – Present

QuantConnect, Self-employed, Part-time

Developed and rigorously tested over 200 algorithmic trading strategies across equities, cryptocurrencies, and FX markets. Utilized machine learning, mean reversion, and statistical arbitrage techniques within QuantConnect,

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Backtrader, and Backtesting.py frameworks. Applied Python programming (including pandas, numpy, SciPy, scikit-learn) for data analysis and model development. Conducted portfolio optimization to maximize returns while effectively managing risk.

Key Achievements:

- *Machine Learning Trading Strategies:* Developed and tested machine learning-based trading strategies, achieving superior risk-adjusted returns compared to traditional approaches.
- *Portfolio Optimization:* Implemented advanced portfolio optimization techniques to construct diversified portfolios that outperformed benchmark indices.
- *Cryptocurrency Trading Algorithms:* Designed and implemented algorithmic trading strategies tailored to cryptocurrency markets, capitalizing on market inefficiencies and volatility.

Tutor and Assessor, 2021 – 2023

GetSmarter, University of Oxford

Contributed significantly to the renowned Oxford Algorithmic Trading online certificate program, where I provided expert guidance and assessments to participants. Alongside facilitating their understanding of algorithmic trading principles, I specifically addressed the learning objective of providing insight into how automation, AI, machine learning, and emerging technologies will impact the future of systematic trading.

Key Contributions:

- Guided participants through the complexities of algorithmic trading principles, emphasizing the integration of automation, AI, and machine learning in systematic trading.
- Delivered assessments designed to evaluate participants' understanding of the implications of emerging technologies on trading strategies and market dynamics.
- Mentored individuals to explore the potential of automation and AI in optimizing trading processes and adapting to evolving market trends.

Project Lead & Quantitative Analyst, 2022 — 2023

Global Vertices, Dubai

Led a multidisciplinary team in the development and validation of quantitative solutions for financial markets. Spearheaded the creation of mathematical and statistical models, enhancing trading strategies and risk management techniques. Collaborated closely with stakeholders to ensure alignment with business objectives and regulatory requirements. Completed an Advanced Data Science Bootcamp training, augmenting expertise in cutting-edge analytical methodologies.

Key Achievements:

- Orchestrated the implementation of advanced data science techniques to optimize trading performance and provide actionable insights for strategic decision-making.
- Facilitated collaboration on various data science projects, fostering operational efficiency and innovation within the organization.

Quantitative Researcher, 2020 — 2021

Hedgina, USA (Remote)

Conceptualized and developed innovative valuation strategies, refining mathematical models for trading across diverse asset classes. Conducted comprehensive statistical analyses to enhance monetization systems for trading signals. Managed and collaborated with local and offshore team members, fostering a culture of excellence and driving improvements in trading outcomes.

Key Achievements:

- Spearheaded the development and implementation of cutting-edge valuation strategies, contributing to improved trading performance and profitability.
- Led cross-functional teams in the research and execution of algorithmic trading projects, delivering tangible results and maximizing operational effectiveness.

Data Science Consultant and Co-Founder, 2019 — 2021

QuanTech Africa, Mauritius

Co-founded and managed a successful data science consultancy, specializing in the creation of advanced predictive models to address complex business challenges. Led initiatives to design and implement data modeling processes, enabling clients to make informed, data-driven decisions. Played a pivotal role in manipulating and analyzing large datasets, extracting actionable insights that drove significant improvements in client profitability and efficiency.

Key Achievements:

- Designed and implemented data modeling processes, empowering clients with sophisticated predictive analytics solutions tailored to their specific needs.
- Led efforts in data cleaning, aggregation, and organization, ensuring data integrity and facilitating its effective utilization for strategic decision-making.

Technical Proficiencies

Programming Skills: Python, R, C#, Pine Script, SQL

Tools: Windows/ Linux, AWS, Azure, GIT, Microsoft Office suite, PowerBI, Jupyter Notebooks

Education

MSc, Applied Statistics with Operations Research

[University of Technology Mauritius](#), class of 2018

BTech (Honors), Financial Engineering

[Harare Institute of Technology](#), class of 2013

Certificates

Certificate in Credit Risk Modeling in Python, [365 Careers & Udemy](#), 2020

Applied Data Science I: Scientific Computing & Python (honors), [WorldQuant University](#) [\[Click to verify\]](#), 2020

Applied Data Science II: Machine Learning & Statistical Analysis (honors), [WorldQuant University](#) [\[Click to verify\]](#), 2021

ISO 9001:2015 Quality Management System Auditor, Udemy [\[Click to verify\]](#), 2024