ANSTO TAFARA CHIBAMU

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https://quantatc.github.io/ansto/

Applied data scientist with 7+ years of experience and a track record of solving business problems using predictive modeling, and domain-specific analytics; especially in finance, risk, and operations. I specialize in building solutions that boost profitability and reduce inefficiencies. **Strengths**: End-to-End Data Analytics | Python | Statistical Modelling | SQL | Machine Learning

Skills

Programming & Tools:	Python, SQL, R, C#, Git/GitHub, Jupyter Notebooks, Backtrader, Streamlit, FastAPI, Docker, Pine Script (TradingView), MT4/MT5 Automation, Lean CLI
Data & Analytics:	Data Analytics, Big Data Analytics, IoT Analytics, Data Wrangling, Feature Engineering, Real-time Data Processing, ETL Pipelines, OCR & Document Extraction, Anomaly Detection, Fraud Detection Systems
Machine Learning & AI:	Machine Learning, Deep Learning (CNNs, LSTMs), NLP Techniques, Time Series Forecasting, Predictive Modeling, Model Evaluation (AUC, F1, Recall), Signal Generation
Quant & Trading:	Quantitative Research, Algorithmic Trading, Backtesting Strategies, Trading Algorithm Development, Portfolio Optimization, Risk Management, Market Microstructure Analysis
Frameworks, Cloud & MLOps:	AWS, Azure DevOps, MLOps, Scikit-learn, TensorFlow, PyTorch
Soft Skills:	Excellent Time Management, Independent & Team-Oriented, Rapid Prototyping, Client-Facing Communication

Experience

MARCH 2022 – PRESENT

Project Lead & Quantitative Analyst | Global Vertices | Dubai, UAE | Remote

- Leading product development team, overseeing validation and implementation of quantitative solutions for financial markets.
- Developing and implementing data-driven solutions for financial market analysis, optimizing operational processes and enhancing business performance.
- Leading end-to-end data analytics projects from requirements gathering to implementation, focusing on risk management and market analysis.
- Collaborating on cross-functional data science projects, resulting in 40% improved operational efficiency.
- Completed advanced Data Science Bootcamp training with Data Science Dojo, enhancing expertise in cutting-edge analytical methodologies.

JANUARY 2017 – PRESENT

Independent Quantitative Researcher | QuantConnect

- Designing and implementing algorithmic trading strategies across multiple platforms: QuantConnect (LEAN CLI), Backtrader, TradingView (Pine Script), MetaTrader 5 (Python), and cTrader (cAlgo API, C#).
- Researching and backtesting strategies in equities, crypto, and FX, including mean-reversion, momentum, breakout, volatility-based, and machine learning systems.
- Integrating broker APIs and developing tools for signal execution, performance tracking, and forward testing.

- Utilizing Python, C#, and SQL for strategy development, data processing, and analysis of backtest results.

SEPTEMBER 2021 – AUGUST 2023
Tutor: Oxford Algorithmic Trading Programme| GetSmarter | Remote

- Engagement Tutor and Assessor for Oxford's prestigious Algorithmic Trading certificate programme.
- Provided expert guidance on algorithmic trading principles, emphasizing integration of AI and machine learning.
- Assessed participants' comprehension of complex quantitative concepts and trading strategies.
- Mentored professionals in algorithmic trading, sharing real-world insights and best practices.

FEBRUARY 2019 – AUGUST 2021
Data Scientist | QuanTech Africa | Mauritius

- Co-founded a data science consultancy specializing in providing data-driven solutions for SMEs and Asset management companies.
- Manipulated and analyzed large datasets to extract actionable insights and trends.
- Led data cleaning, aggregation, and organization efforts ensuring data integrity.
- Contributed to significant improvements in business decision-making processes. At least 20% improvement on all the projects.

AUGUST 2015 – JULY 2016
Quantitative Business Analyst (Intern) | Hotels and Leisure Africa | Zimbabwe

- Analyzed hotel KPIs (e.g. occupancy, ADR, RevPAR) to support revenue optimization.
- Built Excel and Power BI dashboards for real-time performance tracking.
- Forecasted room demand using time series models to guide pricing strategies.
- Developed cost-saving models, reducing overbooking and F&B waste by 15%.
- Supported dynamic pricing and competitor analysis initiatives.

Education

2018 - 2019
Master of Science, Applied Statistics with Operations Research | University of Technology, Mauritius| Merit

2013 - 2017
Bachelor of Technology (Hons), Financial Engineering | Harare Institute of Technology| Zimbabwe | 2.1

Certifications

- Certificate in Credit Risk Modeling in Python, 365 Careers & Udemy, 2020
- Applied Data Science II: Machine Learning & Statistical Analysis (with honors), WorldQuant University, 2021
- Applied Data Science I: Scientific Computing & Python (with honors), WorldQuant University, 2020.
- ISO 9001:2015 Quality Management System Auditor, Udemy, 2024

Selected Projects

- [Tafaralytics – Full-Stack Retail Intelligence Dashboard](#)
- **Deep Learning Models for Short-Term Price Prediction**
- **Quant Strategy Backtesting Framework (Python & Backtrader)**
- **AI-Driven Market Microstructure Insights Tool**