Salim Sharif

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Technical Skills

- Programming: R, Python, SQL & VBA. - Data Visualization: R-ggplot2-, Tableau & Excel. - RDBMS: MS SQL Server.
- Data & Econometrics analysis: STATA & R. - Data Wrangling: R, Python, SQL & Google Sheet. – Predictive Analytics
- Financial Modeling: Option pricing, portfolio optimization, risk management (VaR, RWAs, IRR, XVAs)

Experiences

Baum Tenpers Institute — USA
Assistant Economics Lecturer (Part-time) — *Jan 2024- Present.*

- Delivered advanced macroeconomics lectures, assisted econometrics research, promoted intellectual engagement, and mentored students.
- Utilized econometric tools and software (like *R & Python*) to analyze data and conduct research projects, such as constructing ML models and applying Big Data in equity valuation.

Scale AI — USA
AI Specialist Contractor — *Feb 2024- May 2024.*

- Contributed to developing generative AI models within the Reinforcement Learning (RL) framework (RLHF), ensuring model accuracy through rigorous prompt design.
- Created mathematically rigorous prompts to train AI models in mathematical computations and statistical analysis.
- Designed complex prompts to generate SQL queries, ensuring the queries had accurate data labels and optimal runtime.

CHRISTAD Foundation — Nigeria
Research Assistant — *Mar 2022- Jul 2022.*

- Collaborated on impactful research (CCT program in Nigeria), using *Python* libraries like *Pandas* and *NumPy* for data manipulation and analysis.
- Expertly cleaned and manipulated large-scale survey data sets having (19,000+ variables & 8,000+ observations) using *Python* libraries like *Pandas* and *NumPy*, for de-identification, merging, handling missing data, and standardization.
- Developed comprehensive codebooks, data labels, and user-friendly Excel reports for researchers, program coordinators, and stakeholders.

National Bank of Commerce — Tanzania
Treasury and Global Markets Trainee — *Mar 2021 - Mar 2022.*
- *Quantitative Analysis, Liquidity, and Market Risk Management:*

- Successfully executed *swaps*, *futures*, and *options trades* within the BSM-Treasury division.
- Managed a $170 million portfolio, optimizing cash allocation and income generation via bond and money market investments to achieve returns 23.5% above the Short-Term Planning (*STP*) benchmark.
- Conducted liquidity forecasts, created yield curves, monitored spreads (*PV01*), and risk assessments (*LRA*, etc.) for optimal risk management.
- Utilized *Bloomberg*, Tableau, *SQL & VBA* to automate reports & analytics (*LCR, NSFR, FELE, LEX, FTP curves*).
- *Capital Management and Modeling:*

- Analyzed data for capital plan optimization & advised on metrics and reporting like *Tier 1 CAR, CCAR,* and *Total CAR*.
- Monitored capital ratios, performed stress testing, and managed Single Borrower Limits (SBLs).
- Devised approach to improve *RoRWA* by monitoring unutilized facilities & reallocating *RWAs* strategically among businesses.

Centre of Behavioural Studies (CBS-UDSM) — Tanzania
Research Assistant — *Oct 2020 - Mar 2021.*

- Collaborated on the research project "Fostering Voluntary Tax Compliance among Presumptive Taxpayers in Tanzania: Role of Behavioural Science", involving problem identification, *STATA,* and *R* for data analysis, intervention design, testing, evaluation, and stakeholder recommendations.
- Designed and implemented interventions in behavioral science for various projects, including disease prevention and student performance improvement.

Education Background

Southern Methodist University | *MSc in Applied Economics and Predictive Analytics* — *Dec 2023.*

University of Dar es Salaam | *BA in Economics and Statistics* — *Dec 2020.*

Certifications: 1. Bloomberg Market Concepts (BMC) certificate | Bloomberg, **2.** Financial Modeling and Data Analysis with Excel | Marj Financial Consultancy, **3**. Statistical Analysis with SPSS, STATA, and R | University of Dar es Salaam