Salim Sharif

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EXPERIENCE

- **BAUM Tenpers Research Institute | Assistant Economics Lecturer (Part-time)** *Jan 2024 - Current*
  - Cleaned data sets, preparing research presentation deck, assisting in econometrics research and others ad-hoc requests of senior fellows using R or LateX.
  - Delivering advanced lectures in intermediate macroeconomics and probability theory to pre-doctorate students.

- **Scale AI | AI Specialist (Short-term contract)** *Feb 2024 - May 2024*
  - Trained and fine-tuned clients OpenAI's and Google's LLMs through prompt engineering, label development, and feedback, improving AI's reasoning and accuracy by 86.4%.
  - Designed complex prompts to generate SQL queries, ensuring the queries had accurate data labels and optimal runtime.
  - Created mathematically rigorous prompts to train AI models in mathematical computations and statistical analysis.

- **World Bank Consultant | Research Assistant (Short-term contract)** *Mar 2022 - Jul 2022*
  - Collaborated on World Bank research (CCT program in Nigeria), using STATA and Python libraries like Pandas and NumPy for data manipulation and analysis.
  - Expertly cleaned and analyzed large-scale survey data sets having (19,000+ variables & 8,000+ observations) using Python (Pandas, NumPy & Scikit-learn) for de-identification, merging, handling missing data (e.g., imputation), and standardization.
  - Developed comprehensive codebooks, data labels, and user-friendly Excel reports and STATA files for researchers, program coordinators, and stakeholders.

- **National Bank of Commerce | Treasury and Global Markets Rotational Trainee** *Mar 2021 - Mar 2022*
  - Leveraged data analysis tools (Bloomberg, Teradata-SQL, VBA & Tableau) to automate treasury analytics & reporting.
  - Applied ML techniques (e.g., time series analysis, classification) to predict liquidity trends & investment decisions.
  - Conducted advanced quantitative analysis, including liquidity forecasting, yield curve modeling, and risk assessments, to ensure optimal portfolio management.
  - Optimized $170 million portfolio, achieving 23.5% above benchmark returns through effective cash management, bond investments, and risk mitigation.

- **Centre of Behavioural Studies | Research Assistant** *Oct 2020 - Mar 2021*
  - Leveraged STATA and R for comprehensive data analysis, including exploratory data analysis, econometrics modeling, data visualization, and reporting.
  - Designed and implemented nudge interventions to increase COVID-19 prevention and student performance then utilized A/B testing to measure the impact of interventions resulting in a 37% and 28% increase in compliance and performance.

- **Temeke Municipal Council | Economist Intern** *Jul 2019 - Dec 2019*
  - Utilized Excel to create clear and concise data visualizations (charts, graphs, dashboards) using Excel to communicate insights (KPIs & EWIs) effectively to stakeholders.
  - Collaborated on data collection, analysis, production of municipal reports and feasibility studies, providing data-driven recommendations.

PROJECTS

- **Project A: Electricity Cost Forecasting: An Application of Time-series Econometrics with R** [⟳]
  - Conducted comprehensive time series forecasting analysis on electricity consumption data, utilizing various statistical models (SARIMA, SMA, and ETZ) and machine learning techniques (like Neural Net & Ensemble Methods).
  - Employed advanced data analysis tools (R, fpp2, urca) to preprocess data, identify trends, and evaluate model performance for accurate forecasting.

- **Project B: Deriving Insights from Netflix Dataset: ETL + Data Analysis** [⟳]
  - Developed an ETL pipeline in Python to extract data from the Netflix dataset on Kaggle, clean and transform it, and load it into a Microsoft SQL Server database.
  - Utilized SQL to analyze the data and answer key KPIs such as User Engagement, Content Popularity, and Diversity.

EDUCATION

- **Southern Methodist University | MS in Applied Economics and Predictive Analytics (GPA: 3.5/4.0)** *Aug 2022 - Dec 2023*
- **University of Dar es Salaam | BA in Economics and Statistics (GPA: 3.6/4.0)** *Oct 2017 - Dec 2020*