

Education

• Stevens Institute of Technology	New Jersey, United States
Master of Science in Business Intelligence and Analytics	Aug 2024 – Present
Concentration: Data Science and Artificial Intelligence	
• Lahore University of Management Sciences	Lahore, Pakistan
Master of Science in Applied Mathematics	Aug 2022 – May 2024
• Institute of Business Administration, Karachi	Karachi, Pakistan
Bachelor of Science in Mathematics and Economics	Aug 2017– May 2021

Professional Experience

• Stevens Institute of Technology	New Jersey, United States
Graduate Teaching Assistant	August 2024 – Present
◦ Assist in teaching course contents, hold weekly office hours, proctor and grade exams, and provide responsive support to course coordinators.	
• Maqсад (Pvt.) Ltd.	Lahore, Pakistan
Academic Associate	Dec 2021 – Jul 2024
◦ Developed educational content, researched exam patterns, and used analytics to enhance material.	
• Institute of Business Administration, Karachi	Karachi, Pakistan
Teaching Assistant	Sep 2019 – May 2021
◦ Provided counseling, conducted tutorials, and created and evaluated assessments.	
• State Bank of Pakistan	Karachi, Pakistan
Surveyor	August 2018 – Dec 2019
◦ Conducted surveys with 200+ senior managers on business conditions and 300+ consumers on inflation expectations to aid the State Bank of Pakistan in policy and index development.	
• National Rural Support Program	Turbat, Pakistan
Intern	Jun 2018 – Jul 2018
◦ Observed market prices for goods distribution to the poor in infrastructure projects.	

Projects & Presentations

• Optimal Control Analysis of SIR Model using Genetic Algorithm	Spring 2024
◦ This thesis uses genetic algorithms to optimize control strategies in the Susceptible-Infectious-Recovered (SIR) model, effectively identifying robust interventions like vaccination and social distancing for public health decision-making.	
• Analysis on COVID-19 Cases, and forecasting new cases for countries NZ and IS	Fall 2020
◦ This report forecasts COVID-19 cases and deaths in Iceland and New Zealand using ARMA/ARIMA models and analyzes panel data from five countries to identify influencing factors using fixed and random effects models.	
• Cross-Sectional and Time Series Analysis of Cobb-Douglas Production Function	Spring 2020
◦ This report focuses on the Cobb-Douglas Production Theory, pioneered by Cobb and Douglas in 1928, which models growth and output in the American manufacturing sector from 1899 to 1922.	
• Education Progress Across Districts Of Pakistan using Multiple Regression	Fall 2019
◦ Education scores reflect a country’s progress, assessed at district levels in Pakistan. Factors like HDI, teacher-school ratio, primary school count, and district region influence these scores. This study examines their relationship.	

Skills and Interests

- Programming: Python, R, MATLAB
- Data Analytics Tools: SQL, Excel, Tableau, Power BI, Google Analytics, SPSS, EViews, Stata

Certifications and Training

• Data Analytics and Business Intelligence	July 2023
• Machine Learning With Python	May 2023
• Data Science Math Skills	Feb 2022

Awards & Honours

• Dean Lister in Undergraduate education at Institute of Business Administration, Karachi	2021
• Fully funded scholarship for Undergraduate at Institute of Business Administration, Karachi	2017