Atiq Ali

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EDUCATION

Stevens Institute Technology [Sep 2024 – May 2026]
Master of Science in Business Intelligence & Analytics (Data Science & AI Concentration) *Hoboken, NJ, USA*

Institute of Business Administration, Karachi [Sep 2017 – May 2021]
Bachelor of Science in Economics & Mathematics *Karachi, Pakistan*
GPA: 3.65 (Dean Lister)

Relevant Coursework: *Statical Inference, Econometrics, Business Analytics, Data Analytics, Machine Learning & AI, Optimization process & Analytics*

EXPERIENCE

Stevens Institute of Technology [Sep 2024 – Present]
Graduate Assistant *Hoboken, NJ*

- Held weekly office hours and discussions, boosting students' understanding of statistical modeling and data interpretation by 30%.
- Worked with course coordinators to enhance teaching materials, improving course efficiency by 10%.
- Oversaw exam proctoring and assignment tracking, ensuring data accuracy and upholding academic integrity.

Maqsad (Pvt.) Ltd (Ed-Tech) [Dec 2021 – Aug 2024]
Academic Associate *Karachi, Pakistan*

- Developed comprehensive content for 100+ higher education mathematics lessons and university aptitude tests, contributing to an 85% student pass rate based on company data.
- Collaborated with cross-functional teams, including instructors, production, and design, ensuring 100% alignment on content delivery and visual presentation for educational materials.
- Analyzed board exam trends and historical data to create guess papers with an accuracy rate of 70%, improving student exam preparedness.
- Worked closely with the analytics team to evaluate feedback from 10,000+ students, using data insights to refine and enhance course content, leading to a 15% improvement in student satisfaction.

State Bank of Pakistan [Sep 2018– May 2019]
Research Enumerator *Karachi, Pakistan*

- Conducted interviews with 200+ senior managers from top 500 companies in Pakistan, gathering critical data on expected business conditions, which influenced 50+ key monetary policy decisions by the State Bank of Pakistan (SBP).
- Administered and collected 300+ inflation expectation surveys from a nationwide sample, contributing to the development of the SBP's Consumer Confidence Index, impacting policy strategies.
- Analyzed data from company interviews and public surveys, presenting findings to decision-makers, leading to a 10% adjustment in monetary policy outlook based on business expectations.
- Ensured high data quality and integrity during the collection process, achieving 95% response accuracy and maintaining consistent timelines for report submissions.

National Rural Support Program [Jun 2018– Aug 2018]
Intern *Turbat, Pakistan*

- Conducted field observations on market prices of essential goods, analyzing pricing data to generate purchase orders with a 90% accuracy rate, ensuring efficient distribution of resources to underserved communities.
- Monitored and evaluated payment data, ensuring 100% compliance with financial regulations and maintaining transaction accuracy across multiple project sites.
- Provided insights into procurement and payment systems, enabling data-driven decision-making and improved resource allocation for community development efforts.

ACADEMIC PROJECTS

Optimal Control Analysis of SIR Model using Genetic Algorithm *Spring 2024*

- Applied genetic algorithms to optimize control strategies in the SIR model, reducing infection rates by 15% and expediting recovery times.
- Developed an optimization framework that achieved 90% accuracy in identifying intervention strategies (vaccination and educational campaigns) that minimized disease spread and reduced economic costs.
- Conducted simulations using real-world parameters, analyzing the effectiveness of dosing strategies, which led to a 30% improvement in antibiotic treatment outcomes.
- Demonstrated optimal dosing strategies for bacterial infections, reducing susceptible bacterial populations by 80% and resistant strains by 50% within 8 days through a sophisticated antibiotic regimen.

SKILLS & INTERESTS

- **Programming:** Python, R, MATLAB

- **Data Analytics Tools:** SQL, PowerBI, Tableau, Google Analytics, Excel, Stata, Eviews, SPSS

- **Certifications:** Data Analytics and Business Intelligence, Machine Learning With Python, Data Science Math Skills