AYAN IMRAN

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EDUCATION

Northeastern University | Boston, MA   August 2026
Bachelor of Science in Economics and Data Science
Study Abroad: NUin, London   January 2023 – May 2023
Relevant Coursework: Statistics, Econometrics, Public Finance, Money and Banking, Monetary and Fiscal Policy, Foundations of Data Science, Information Visualization, Contested Economic Issues

EXPERIENCE

Patient First.AI, Boston, MA | *Data Analyst Intern*   July 2025 - August 2025
- Increased user accessibility by 35% by redesigning and prototyping a multi-state immunization record upload interface using Lovable/Figma, resulting in a 28% reduction in user error rates.
- Developed technical documentation for all 50 state immunization registry APIs, categorizing each by authentication method, messaging standards, and integration complexity score (1-5).
- Developed an integration readiness matrix that identified 8 priority states for initial B2B/education partnerships, directly informing the product team's deployment strategy.

Northeastern University, Boston, MA
Cosmetic Product Safety Analysis Project | Machine Learning and AI   January 2025 - May 2025
- Engineered Python data pipeline to analyze 1,472 Sephora products, uncovering that 43% of products marketed as "clean" contained potentially harmful synthetic ingredients.
- Designed and implemented a comprehensive ingredient safety scoring system (0-10) that identified five high-risk chemicals present in 68% of conventional beauty products.
- Created data visualizations that revealed a 73% misalignment between marketing claims and actual product composition, demonstrating how price and marketing poorly correlate with ingredient safety profiles.

Pakistani Student Association, *Member*   September 2023 – Present
- Co-led planning and execution of flagship cultural event, including a South Asian Night attended by 200+ students, managing logistics, speaker outreach, and promotional campaigns.
- Implemented targeted engagement strategies through social media and campus outreach, resulting in 25% higher event participation and improved member retention compared to previous semesters.

MCB Bank, Lahore, Pakistan | *Corporate Finance Intern*   May 2024 - August 2024
- Analyzed 10+ financial reports, including balance sheets and income statements, to prepare executive summaries for senior leadership.
- Reviewed 10 competitor financial statements with a 4-person team to deliver industry report on EMEA market growth to CIO
- Automated 4 key financial reporting workflows in Flexcube, accelerating data reconciliation and processing speed by 25% , saving ~10 hours of manual work per month.

National Incubation Center Lahore, LUMS, Lahore, Pakistan | *Summer Intern*   May 2023-August 2023
- Organized NICL's capstone Investor Summit with 10 startups pitching to 50 investors, coordinating logistics to ensure seamless execution and facilitate investor-startup connections.
- Analyzed startup needs and tracked mentorship frameworks of 5 global accelerators to refine NICL's Foundry Program mentorship model.
- Benchmarked NICL's acceleration services and investor training programs against 7 global programs, recommending curriculum enhancements to align the Foundry Program with international best practices.

SKILLS

Technical: Python, Financial Modeling/Analysis, SQL, Matplotlib, Photoshop, MS Excel, Figma, Stata.
Languages: English (Fluent), Urdu (Native), Hindi (Fluent), Punjabi (Fluent), French (Basic)
Interests: Golf, Econometrics, Data Science Applications, Reading, Community Service
Other: Green Card application in progress