

Salman Salahuddin

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Education

Doctor of Philosophy in Artificial Intelligence (PhD AI)

- Air University, Islamabad Campus, Pakistan
- August 2024—on-going (coursework completed)
- 3.67 / 4
- Courses taken as course work: Special topics in Deep Learning, Special topics in Computer Vision, Advanced Artificial Intelligence, Computational Linguistics, Special topics in Explainable Artificial Intelligence, Deep Reinforcement Learning (DRL).

Master of Science in Business Analytics (MSBA)

- FAST NUCES, Islamabad Campus, Pakistan
- August 2022 – July 2024
- CGPA: 3.61/4 (Max=4)
- Courses taken: Accounting and Finance for Manager (3), Management and Organization Behavior (3.67), Advance Research Methods (3.67) , Inferential Statistics and Descriptive Modelling (4), Decision Science for Business (4), Ethical and legal Issues in Business Analytics (3.33), Machine learning models for Business Analytics (3.67), Machine learning Lab (3), Business Economics for Managers (3.33), Econometrics (4), Contextual marketing and Product Analysis (3.67), Dissertation 1 (4), Predictive Modeling (3.67), Data Driven Decision Making and optimization (2.67), Dissertation 2 (4).
- Dissertation: “Stock Prediction and Stock Selection based on Macro-Economic Indicators/Factors and Investor Behavior” (6 credit hours) – preparing for publication

Bachelors of Multimedia Design with Business Information Systems

- Middlesex University, London, UK.
- Graduated: 2006
- Courses: Information Systems and Strategic Management, New Media Design and Technology (7), Computing Project management (8), Enterprise Database Systems, Multimedia Applications: Design and implementation, Educational Multimedia.

Bachelor of Computer Science (BCS)

- University of Central Punjab (UCP), Lahore, Pakistan
 - Graduated: 2002
 - Courses: Computers and Applications (2), English (3), Calculus and Analytical geometry-1 (2.3), Pakistan and Islamic Studies (2.7), Physics and lab-1 (3.33), Computer Programming (3.67), Computer Logic and Design (3.67), Calculus and analytical geometry-2 (3.33). Physics and lab-2 (4), Data Structures (3.33), Database and information retrieval (3), Linear Algebra (4), Probability and Statistics (2.3), Assembly Language programming (2.67), Discrete Mathematics (3.33), Software Engineering (2), Numerical methods (3.33), Programming Techniques (2), Computer Architecture and organization (3.33), Operating systems (3), theory of Automata (2), ordinary differential equations (2), Design and Analysis of Algorithms, Local Area Networks (2), French Language-1 (3), Advanced Computer Programming (2), compiler construction (2), Advanced Computer Architecture, French-2 (3), Data Communication.
 - CGPA: 2.46
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Professional Experience

ICT lab Teacher

City School, Peshawar, Pakistan

August 2009 – May 2013

- ❖ Taught computer science and ICT fundamentals to students, fostering an interactive and technology-driven learning environment.
- ❖ Designed and delivered engaging lessons on programming basics, database management, and digital literacy.
- ❖ Provided hands-on training in Microsoft Office, coding fundamentals, and IT troubleshooting.
- ❖ Assisted in curriculum development to align with modern technological advancements and student needs.

Software Developer / Data Analyst

Khyber Lamps Limited, Peshawar, Pakistan

June 2010 – July 2022

- ❖ Developed and maintained software applications using C++, optimizing internal business processes and improving system efficiency.
- ❖ Conducted in-depth data analysis using SPSS, EViews, and Excel, generating reports to support strategic decision-making.
- ❖ Designed and managed company databases and IT infrastructure, ensuring data integrity, security, and operational continuity.

- ❖ Implemented predictive analytics models to enhance demand forecasting and inventory management.
 - ❖ Provided technical support and training to employees, improving digital literacy and software adoption across departments.
 - ❖ Spearheaded process automation initiatives, reducing manual workload and increasing overall productivity.
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Skills

- **Technical Skills:**

- ❖ Artificial Intelligence & Machine Learning: AI Consultation, Deep learning, Explainable AI (XAI), Neural Networks, NLP, Computer Vision, Reinforcement learning (robotics).
- ❖ Data Science & Analytics: Predictive Modeling, Econometrics, Statistical Analysis, Data Visualization, Time Series Forecasting.
- ❖ Programming & Development: Python, R, Tensor Flow, Scikit-learn.
- ❖ Business & Finance Analytics: Business Intelligence (BI), Stock Market Analysis, Financial Modeling, Risk Assessment, Digital Marketing Analysis.
- ❖ Data Tools & Software: SPSS, EViews, Excel.
- ❖ Data Preprocessing, Data Cleaning, Feature Engineering and Visualization (Matplotlib, Seaborn).

- **Professional Traits:**

- ❖ Collaborative & Adaptable: Strong team player with excellent interpersonal skills, able to thrive in dynamic and multicultural environments.
 - ❖ Innovative & Analytical Thinker: Passionate about problem-solving, data-driven decision-making, and leveraging AI for business growth.
 - ❖ Self-Motivated & Research-Oriented: Continuously eager to learn and stay updated with emerging technologies, trends, and methodologies.
 - ❖ Detail-Oriented & Results-Driven: Committed to delivering high-quality solutions with precision and efficiency.
 - ❖ Leadership & Communication: Capable of leading projects, mentoring peers, and effectively communicating complex concepts to diverse audiences.
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Projects

Stock Prediction and Stock Selection based on Macro-Economic Indicators and Investor Behavior.

- ❖ Led a research-driven AI project to develop a stock prediction and selection model by analyzing macro-economic indicators and investor sentiment.
- ❖ Utilized machine learning algorithms (e.g., SVR, LSTM) to forecast stock performance and optimize investment strategies.

- ❖ Applied econometric modeling techniques (Fixed and Random Effects, Panel Data Analysis) to assess the impact of economic variables on stock trends.
- ❖ Conducted data-driven financial analysis using Python, R, SPSS, and EViews to derive actionable insights for investors.
- ❖ Designed a framework integrating predictive analytics and behavioral finance, improving stock selection accuracy and risk assessment.
- ❖ Research findings are being prepared for publication in an academic journal to contribute to AI-driven financial analytics.

Publications

- Preparing to publish the dissertation ‘Stock Prediction and Stock Selection based on Macro-Economic Indicators/Factors and Investor Behavior as an article

Languages

- Fluent in Urdu (native Language) and proficient in regional languages including Hindko, Pashto, and Punjabi.
- Highly proficient in English (both written and spoken), with extensive academic and professional experience in English-language environments.
- All education and professional communication have been conducted in English, ensuring strong command over technical and business communication.

References

- Dr. Adnan Shoaib – Associate professor at FAST NUCES, Islamabad Campus, also my supervisor for the dissertation (<http://isb.nu.edu.pk/Faculty/Details/5616>) (adnan.shoaib@nu.edu.pk)
- Dr. Muhammad Abbass – Associate Professor at FAST NUCES, Islamabad Campus, he has taught me, ‘Advanced Research Methods’ (<http://isb.nu.edu.pk/Faculty/Details/9488>) (muhammad.abbas@nu.edu.pk)
- Dr. Ayub Siddiqui – Associate Dean / Professor at Iqra University, Islamabad Campus, he has taught me ‘Inferential Stats’ and ‘Econometrics’. (<https://iuisl.iqra.edu.pk/faculty/dr-muhammad-ayub-siddiqui/>) YouTube channel: (<https://www.youtube.com/@dr.m.ayubsiddiqui5597>) (muhammadayubsiddiqui123@gmail.com)