



Sadam Hussain

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EDUCATION AND TRAINING

BS Computer Science

Government College University Lahore (GCUL), Lahore, Pakistan [09/09/2020 – 15/10/2024]

Major Courses:

Artificial Intelligence & Neural Networks, Parallel & Distributed Computing, Design & Analysis of Algorithm, Data Structures & Algorithms, Computer Organization & Assembly Language, Database Systems, Computer Networks, Operating System, Object Oriented Programming, Principle of Programming Language, Linear Algebra, Calculus and Analytical Geometry, Programming Fundamentals, Software Engineering, Human Computer Interaction, Software Quality Assurance, Mobile App Development, Operational Research, Information Security, Probability & Statistics, Differential Equations, Discrete Structures, Compiler Construction, Intellectual Property Rights and Cyber Law

Undergraduate Project: "Smart Data Quality and Integrity Monitoring System using AI."

Grade: CGPA (2.94/4.00)

Business Intelligence Training Course, Deep Learning Institute, Lahore, Pakistan [2023]

Successfully completed a three-month training course in Business Intelligence from Deep Learning Institute with certification.

Project: "Employee Performance Analytics Dashboard."

Programming: Python and MATLAB Training Course, Deep Learning Institute, Lahore, Pakistan [2022]

Successfully completed a three-month training course in Python and MATLAB from Deep Learning Institute with certification.

Project: "Sales Performance and Insights System."

WORK EXPERIENCE

Data Engineer

Douxi Technologies, Lahore, Pakistan [24/06/2024 – Current]

- Analyzing large and complex datasets to extract meaningful patterns, supporting AI-driven decision-making and performance optimization.
- Developing intelligent data reporting and visualization systems to ensure accurate, timely, and insight-rich information delivery.
- Collaborating with cross-functional teams to enhance data processing and workflow efficiency using Python, SQL, and Excel.

Business Intelligence Intern

Vise Tech, Lahore, Pakistan [05/02/2024 – 30/04/2024]

- Assisted in developing data analysis and reporting solutions using Python and MATLAB, supporting data-driven business intelligence workflows.
- Contributed to the creation and optimization of backend scripts for data processing, transformation, and visualization.
- Strengthened analytical and programming skills by applying Python-based automation and MATLAB simulations to extract actionable business insights.

Machine Learning Intern

VFixAll, Lahore, Pakistan [20/03/2023 – 25/08/2023]

During my Internship at VFixAll, I:

- Built a strong foundation in machine learning by mastering key programming languages such as Python and R.
- Gained hands-on experience with essential ML libraries, including TensorFlow and PyTorch, for model development.
- Applied mathematical principles, especially linear algebra and calculus, to design and optimize machine learning models.

DIGITAL SKILLS

Microsoft Office | Data Analysis & Visualization: SQL and Pandas | Programming: C++, Python, MATLAB, and Machine Learning | Operating Systems: Linux, Windows | Mathematics & Statistics: Linear Algebra and Calculus

LANGUAGE SKILLS

Mother Language: Urdu

Other Languages:

FURTHER EDUCATION

- [AI For Everyone \(Deep Learning AI\)](#)
- [Supervised Machine Learning: Regression \(IBM, Coursera\)](#)
- [Machine Learning with Python](#)
- [Introduction to Data Engineering](#)
- [Foundations of Business Intelligence](#)
- [Business Intelligence \(BI\) Essentials](#)
- [Matrix Algebra for Engineers](#)
- [Differential Equations for Engineers](#)
- [Probability and Statistics](#)
- [Foundations of Cybersecurity](#)

PRACTICAL EXPERIENCE

Final year project: "Smart Data Quality and Integrity Monitoring System using AI"

During my Undergraduate Project at GCU, I:

- Developed an AI-driven system to ensure data quality and integrity by detecting missing values, duplicates, and anomalies across large and dynamic datasets. This project involved applying machine learning algorithms for data validation and anomaly detection.
- Integrated big data tools such as **Apache Kafka** and **Apache Spark** to handle real-time and batch data processing efficiently, ensuring scalability and performance.
- Built an interactive Streamlit-based dashboard to visualize data quality metrics, anomaly patterns, and overall system health, enabling users to monitor and assess data reliability effectively.

Semester Project: "Numerical Solutions to Eigenvalue Problems Using MATLAB"

During my 1st semester course Programming Fundamentals, I:

- Implemented and compared numerical methods (Power Method and QR Algorithm) to compute the eigenvalues and eigenvectors of matrices. Conducted evaluations on accuracy and efficiency across different matrix sizes. Analyzed performance and included detailed comparisons in the documentation.

Semester Project: "Path Planning for Autonomous Vehicles Using Python"

During my 6th semester course Design & Analysis of Algorithm, I:

- Designed an autonomous path planning system using Python, employing algorithms like A* and Dijkstra for efficient route optimization.
- Utilized Python libraries such as NumPy, OpenCV and Matplotlib to simulate, visualize and evaluate vehicle navigation performance under dynamic environments.

Training Course Project: "Employee Performance Analytics Dashboard"

During my Business Intelligence training in Deep Learning Institute, I:

- Developed an interactive dashboard to monitor employee KPIs, work efficiency, and project progress in real time using Python, SQL, and Power BI.
- Provided actionable insights through data visualization and trend analysis, supporting data-driven workforce management and decision-making.

Semester project: " John Conway's Game of Life"

In the semester project during programming course, I:

- created a dynamic version of John Conway's Game of Life using Python, showcasing my coding skills and algorithmic thinking.

CONFERENCES AND SEMINARS

State Of the Art Techniques for Data Quality and AI Systems [28/03/2023]

In this two-day seminar held at LUMS Lahore, I gained practical insights into the applications and recent advancements in Artificial Intelligence and Data Engineering, which fueled my motivation for my final year project focused on developing an AI-driven system.

CPD Seminar: Integrating Technologies in Computer Science [18/11/2023]

In this one-day seminar conducted in COMSATS University, Lahore, I presented my Final Year Project on Smart Data Quality and Integrity Monitoring System using AI in front of Professors, AI Researchers, and IT Specialists.

PERSONAL PROJECTS

Python and MATLAB Freelance Services on Fiverr [08/06/2021- current]

I am working as freelancer at Fiverr offering python and MATLAB services with specializing in Machine Learning, Numerical Analysis, Mathematical Modeling, and Data Analysis.

Make the Campus Green [05/08/2023]

In January 2022, I led a Tree Plantation drive project approved by Students Affairs at GCU involving 450 students at my university, aiming to Save environment.

VOLUNTEERING & SOCIAL WELFARE WORK

GCU Welfare Society, Lahore [01/11/2023- 15/08/2024]

I have been active member of GCU welfare Foundation, contributing to the foundation's noble cause by providing monthly financial support, ensuring free education for orphaned and deserving students.

Volunteer Speaker at Schools and Colleges [2023]

I volunteered to educate Students on Environmental Pollution, with a specific focus on noise pollution, Organized by GCU Environment Protection Society.

Campus Cleanliness Drive [27/11/2022]

I Participated in GCU's cleanliness drive to raise awareness and maintain a clean campus environment.

Flood Relief Campaign, GCUEFT, Lahore, Pakistan [2022]

I worked in a campaign for flood relief, collected donations for 100 affected families during the 2022 floods.

MANAGEMENT AND LEADERSHIP SKILLS

President of GCU Environment Protection Society [2022-2024]

As president, led 210 students, organized events on environmental sustainability, initiated successful tree plantation and conducted recruitment interviews, managed finances, accommodations, and communication with speakers and sponsors.

Captain of University Cricket Team [2023]

As a captain, I took trials of 100s of players and led a squad of 15 players at various stages for a year.

Group Leader - Final Year Project [2023-24]

As a group leader, I spearheaded and coordinated a team of 3 members, demonstrating effective leadership and collaborative management skills in our AI-Data Quality project.

NETWORKS AND MEMBERSHIPS

- Computer Science Society (CSS GCU) [2021-24]
- GCU-ACM Student Chapter [2021-23]
- IEEE GCU Student Branch [2021-24]
- GCU Environment Protection Society [2022-24]
- GCU Debating Society [2022-24]
- Nazir Ahmad Music Society GCU [2021-24]

HONOURS AND AWARDS

Awarded 'A' Grade in Final Year Project [2023-2024]

Department of Computer Science, GC University Lahore, Pakistan

Received an 'A' grade for the final year project titled "Smart Data Quality and Integrity Monitoring System using AI". The project earned distinction based on a successful thesis defense in applying artificial intelligence techniques for real-time data validation and integrity assessment.

Certificate of Appreciation for semester project using MATLAB and Python

I received a Certificate of Appreciation from Course Teacher for outstanding performance in semester project "Numerical Solutions to Eigenvalue Problems" using MATLAB and Python.

First prize in Programming HUB

This was an open competition organized by GCU Computer Science Society demonstrating exceptional coding speed, accuracy, and problem-solving proficiency in tackling challenging programming tasks.

Second Prize in English Debating Competition, GCU Lahore, Pakistan [03/11/2022]

This was Inter-school competition at GCU, organized by GCU Debating Society

Second in English Essay Writing Competition, GCU Lahore, Pakistan

This was an open competition throughout GCU and among other universities, organized by GCU Book Club.

HOBBIES AND INTERESTS

- Travelling and Vlogging
- programming
- Community Services
- Nature Photography

INNEXES

- Copy of work experience certificates.
- Copy of membership and volunteer experience certificates
- Copy of Honors and Awards
- Other supporting Documents