

MUHAMMAD AHSAN HAYAT

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PROFESSIONAL SUMMERY

Dedicated and results-driven IT Support Manager and Lecturer with over six years of international and local experience across academic and corporate environments. Holds a Master's in Big Data Science & Technology from the University of Bradford (UK), combining advanced technical expertise with proven instructional and management capabilities. Skilled in cloud computing, artificial intelligence, data analytics, and information systems management, with a track record of optimizing IT infrastructures and integrating emerging technologies into academic and operational frameworks. Highly proficient in diagnosing complex technical issues, leading user training programs, and implementing data-driven solutions to enhance system performance. Passionate about research, innovation, and continuous learning, with multiple published works in AI ethics, IoT frameworks, and human-computer interaction. Recognized for strong leadership, analytical acumen, and commitment to fostering technology adoption in education and enterprise.

PUBLICATION

1. Interaction of Financial Literacy in Impulsive Buying Behavior Theory.
2. The Quantum Leap in Law: AI's Revolution in Justice Delivery
3. The Ethical Implications of Artificial Intelligence in Islamic Jurisprudence: A Comparative Analysis with Western Legal Systems
4. HR Beyond the Office: Leveraging AI to Lead Distributed Teams and Cultivate Organizational Culture in the Age of Remote and Hybrid Work
5. Improved Design Approach on Rehabilitative Exoskeleton
6. An IOT-Driven Smart Agriculture Framework for Precision Farming, Resource Optimization, and Crop Health Monitoring
7. Tiny Machine Learning (TINYML) Advancements for Intelligent Battery-Powered IoT Sensors.
8. Blockchain-Secured IoT Framework for Smart Waste Management in Urban Environments
9. The Role of HR in Managing Robotic Process Automation (RPA) Displacement Anxiety among Employees
10. AI-Driven Cybersecurity for IoT-Cloud Ecosystems
11. Bridging Classical Statistics and Modern Ai Toward Interpretable Data-Science Models.
12. Machine Learning-Based Intrusion and Anomaly Detection Models for Securing IoT Networks Against Emerging Cyber Threats.
13. Towards Early and Accurate Disease Detection Through Multimodal Predictive Modeling: Fusion of Electronic Health Records, Medical Imaging, And Omics Data Using Interpretable Machine Learning.
14. Meta-Learning for Few-Shot and Zero-Shot Learning: Enabling Rapid Adaptation to New Tasks with Limited Data
15. VLSI Design Challenges in Nanotechnology and Future Transistor
16. Blockchain-Integrated AI Framework for Secure IoT Communications
17. Cybersecurity Challenges and Defense Mechanisms in Autonomous Vehicles: Protecting Connected and Intelligent Transportation Systems from Emerging Cyber Threats
18. BlockVerse: A Decentralized Mobile App for Identity and Access Management in the Metaverse
19. Sentiment Analysis and Demand Forecasting from Patient Reviews
20. Modern Web Application Security: A Comprehensive Analysis of Vulnerabilities, Exploit Chains, And Prevention Strategies
21. Ai-Driven Framework for Scalable, Secure, And Intelligent Big Data Management In Cloud Environments

<https://orcid.org/0009-0001-5063-7603>

https://www.researchgate.net/profile/Muhammad-Ahsan-Hayat?ev=hdr_xprf

<https://igrauniversity.academia.edu/MuhammadAhsanHayat>

<https://scholar.google.com/citations?user=pVTMigIAAAAJ&hl=en>

PROFESSIONAL EXPERIENCE

Name of Company: Iqra University, Karachi, Pakistan
Designation: Senior Lecturer, Faculty of Engineering Science & Technology

Jan 1st 2026 – To Date

1. Artificial Intelligence
2. Programming Fundamentals (C++, C)
3. Management Information Systems
4. Computer Architecture
5. AICT
6. Operating Systems

Name of Company: Iqra University, Karachi, Pakistan
Designation: Lecturer, Faculty of Engineering Science & Technology

June 27th 2024 – Dec 31st 2025

1. Artificial Intelligence
2. Programming Fundamentals (C++, C)
3. Management Information Systems
4. Computer Architecture
5. AICT
6. Operating Systems

Name of Company: Indus University, Karachi, Pakistan
Designation: Lecturer, Department of Computing

Sep 2022 – June 2024

- Subject**
1. Introduction to Computing
 2. Cloud Computing
 3. Big Data Analytics
 4. Human Computer Interaction

RESPONSIBILITIES:

1. **Curriculum Development and Instruction:** Responsible for designing and updating the curriculum for Introduction to Computing and Cloud Computing courses, ensuring alignment with the latest technological advancements and industry standards. Implement a blend of theoretical and practical teaching methods to enhance student learning and engagement.
2. **Lectures and Workshops:** Deliver engaging lectures, seminars, and hands-on workshops on fundamental and advanced topics in computing. Facilitate learning by using a variety of instructional techniques and technologies, adapting to diverse learning styles and student needs.
3. **Student Guidance and Support:** Provide academic and career guidance to students. Conduct regular office hours and mentoring sessions to assist students with course material, project work, and research activities. Encourage and guide students in developing critical thinking and problem-solving skills.
4. **Research and Innovation:** Engage in research activities in the field of computing, with a focus on cloud computing technologies and innovations. Collaborate with industry professionals and academic peers to conduct studies, publish research papers, and present findings at conferences.
5. **Technology Integration:** Incorporate the latest computing technologies and software in teaching and research activities. Stay abreast of emerging trends in cloud computing and integrate these advancements into the curriculum.
6. **Assessment and Evaluation:** Develop and administer assessments to evaluate student performance and understanding. Provide constructive feedback and tailor teaching strategies to meet the learning needs of students.
7. **Collaboration and Departmental Contributions:** Actively participate in departmental meetings, committees, and events. Collaborate with colleagues on academic initiatives, course improvements, and interdisciplinary projects.
8. **Professional Development:** Continuously seek professional development opportunities to enhance teaching effectiveness and stay updated with the evolving field of computing. Attend workshops, seminars, and conferences related to computing education and cloud computing technologies.
9. **Community Engagement:** Engage with the broader community through public lectures, workshops, and participation in events promoting technology education and awareness. Foster relationships with industry partners for student internships, project sponsorships, and collaborative research.

Name of Company: Indus University, Karachi, Pakistan
Designation: MIS Coordinator

26th Aug 2022 – 25th June 2024

RESPONSIBILITIES:

1. **Management Information System:** Oversee the university's Management Information System, ensuring its smooth operations, data integrity, and security. Develop and implement data management policies and procedures to maintain accurate and up-to-date information. Monitor and troubleshoot system issues, coordinating with technical support teams for timely resolution of problems. Collaborate with IT department to identify opportunities for system enhancements and upgrades.
2. **Data Reporting and Analysis:** Gather and compile data from various sources to generate reports, dashboard presentations for management, academic departments, and other stakeholders. Analyze data to identify trends, patterns, and areas of improvement, providing insights and recommendations to relevant stakeholders. Ensure data accuracy and integrity by conducting regular audits and reconciliations. Create and maintain standardized templates and documentation for data reporting and analysis processes.
3. **User Support and Training:** Provide technical support and training to faculty, staff, and other users on MIS-related tools, applications, and processes. Assist users in generating ad-hoc reports and accessing information from the system. Conduct workshops and training sessions to enhance data literacy and promote effective use of MIS.
4. **Collaborative Partnerships:** Collaborate with various departments and academic units to understand their data management requirements and assist in developing appropriate solutions. Work closely with the IT department and external vendors to implement new system features, upgrades, and integrations. Foster effective relationships with key stakeholders, facilitating communication and ensuring alignment between MIS capabilities and organizational needs.

RESEARCH FOR THE FEASIBILITY REPORT:

“Advance Research and Training Center for Agriculture, Livestock, Mineral Energy, Information Technology and Energy Resources”

Led a comprehensive research project at the Advance Export Research and Training Center focusing on agriculture and livestock sectors in Sindh, Pakistan. Conducted extensive analysis on local geographical and climatic conditions, major crop production, and existing challenges. Developed strategies for enhancing export potential, leveraging local resources like the Hub Dam for water conservation and irrigation. Managed components including forage plantation, seed cultivation, cattle farming, and implemented modern agricultural techniques. Played a key role in integrating renewable energy solutions, specifically solar energy, to support project sustainability.

BOOK

“The Profound Impact of XI JINPING Thought on Pakistan’s Education, Culture & Economy”

This book is Compiled and Designed by Muhammad Ahsan Hayat in 2024

The book is written by Indus University in honor of President Xi Jinping of China (Not Published) ISBN: 978-627-94525-0-4



Name of Company: Indus University, Karachi, Pakistan

26th Oct 2021 – 25th Aug 2022

Designation: IT Support Officer

RESPONSIBILITIES:

1. Delivered prompt and efficient technical support for hardware, software, and network issues to end- users,
2. ensuring minimal downtime and optimal system performance.
3. Diagnosed and troubleshoot technical problems, escalating complex issues to senior IT staff as necessary.
4. Conducted regular maintenance tasks, system updates, and patches to ensure robust system performance and security.
5. Developed and led training sessions for employees on new systems, software applications, and emerging technologies.
6. Implemented and maintained vital security measures, including data backups, antivirus programs, and access controls to safeguard company data.
7. Created, updated, and managed comprehensive IT documentation, such as system configurations, troubleshooting guides, and user manuals.
8. Managed IT inventory, overseeing both hardware and software assets, and coordinated procurement processes.
9. Collaborated with IT team members to resolve advanced issues and contribute to the continuous improvement of IT processes and services.
10. Monitored system performance, prepared reports, and provided insights to optimize and improve IT infrastructure and operations.
11. Provided user support for IT-related queries, ensuring a high level of customer satisfaction through effective and timely resolution.



Name of Company: Splash Tech Private Limited, Bradford, UK

Oct 2019 – Jan 2021

Designation: IT Support Officer

RESPONSIBILITIES:

1. Delivered prompt and efficient technical support for hardware, software, and network issues to end-users, ensuring minimal downtime and optimal system performance.
2. Diagnosed and troubleshoot technical problems, escalating complex issues to senior IT staff as necessary.
3. Conducted regular maintenance tasks, system updates, and patches to ensure robust system performance and security.
4. Developed and led training sessions for employees on new systems, software applications, and emerging technologies.
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INTERNSHIPS



Name of Company:	IDEAS by Gul Ahmed, Karachi, Pakistan	Apr 2019 – May 2019
Designation:	IT Support Officer	
Name of Company:	IDEAS by Gul Ahmed, Karachi, Pakistan	Feb 2019 - Apr 2019
Designation:	HR / Admin	

EDUCATION



Name of University:	University of Bradford, Bradford, UK	Sep 2019 - Aug 2021
Name of Degree:	Master of Science	
Major:	Big Data Science & Technology	

MODULES

1. Advanced Data Analytics
2. Machine Learning and Artificial Intelligence
3. Data Visualization and Communication
4. Statistical Modeling
5. Database Systems and Management
6. Cloud Computing and Big Data Platforms



Name of University:	Indus University, Karachi, Pakistan	July 2014 – Sep 2018
Name of Degree:	Bachelor of Science	
Major:	Computer Science	

Final Year Project

1. The idea of developing an Android application that functions as a virtual mouse for a computer is interesting and can be implemented using various technologies. The application you described would allow users to control their Windows PC using their Android device as a wireless mouse and track-pad, utilizing Wi-Fi connectivity.
2. To develop such an application, you would need to consider the following key components
3. User Interface: Design an intuitive and user-friendly interface on the Android device to mimic the functionality of a physical mouse and track-pad. This interface should include cursor movement, left and right-click actions, scrolling, and other common mouse operations.
4. Communication: Establish a Wi-Fi connection between the Android device and the computer to enable seamless communication. The application should send the appropriate input signals to the computer based on user interactions on the mobile screen.
5. Screen Sharing: Implement screen sharing functionality on the Android device, allowing the user to see the computer screen on their mobile screen. This would provide visual feedback and enable users to interact with the computer more effectively.
6. Input Mapping: Translate the touch inputs on the mobile screen into corresponding mouse actions on the computer. For example, when the user moves their finger on the mobile screen, the application should send the appropriate cursor movement signals to the computer.
7. Additional Features: Consider implementing additional features such as a virtual keyboard, gesture controls, and customizable settings to enhance the user experience.



Name of Collage: Govt. National Collage, Karachi, Pakistan
Name of Certificate: Intermediate (Higher Secondary Certificate)
Major: Pre - Engineering
Education Board Karachi

2011 - 2014



Name of School: ST. Jude's High School, Karachi, Pakistan
Name of Certificate: Matriculation (Secondary School Certificate)
Major: Computer Science
Education Board Karachi

2009 - 2011

TRAINING

Name of Company: IDEAS by Gul Ahmed, Karachi, Pakistan
Name of Certificate: Communication Skills

2019

PROFESSIONAL SKILLS

1. Extensive computer and network system experience, both in maintenance and initial setup.
2. Excellent communication and service skills, able to build relationships and establish connections.
3. Analysis and evaluation capabilities with proven track record of accuracy and precision.
4. Technology expert with over a decade of experience working with computers professionally.
5. Attention to small details and excellent critical thinking, decision making, management, and leadership skills.

PERSONAL PROFILE

Father's Name	Muhammad Hayat	Nationality	Pakistani
Place of Birth	Karachi, Pakistan	Gender	Male
Date of Birth	20th March 1994	Status	Married
Age	31 Years	CNIC No	42101-1156390-3
Present Resident	Karachi, Pakistan	Passport No	EM6173902

Travel History: United Kingdom student visa Oct 2019 - Jan 2021

REFERENCE: On Request