



Hassan Iftikhar

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ABOUT ME

I am a dedicated and innovative researcher in the field of Software Engineering with a strong background in software development. Over the years, My passion lies in solving complex problems and pushing the boundaries of technology to create impactful solutions. I am skilled in HTML, CSS, Javascript, React.js, Django, Python, C#, SQL server and have a proven track record of working collaboratively in diverse teams. My goal is to continue advancing the field of Software Engineering through rigorous research and practical applications.

WORK EXPERIENCE

Department of CS & IT , Baba Guru Nanak University, Nankana Sahib – Nankana Sahib, Pakistan

Lecturer (BS-18)

[02/08/2024 – Current]

To teach students of BSCS, BSIT, BSDS, BSAI
Internal Controller of Examinations Department of CS & IT
Member of FYP Committee
Focal Person of Departmental Scheme of Studies
Manager ORIC

The University of Faisalabad, Faisalabad, Pakistan – Faisalabad, Pakistan

Lecturer

[14/11/2022 – 01/08/2024]

To teach students of BSCS, BSSE, BSIT
Member FYP Committee
Secretary of Innovative Lyallpur (Innovative Ideas Event) Version 1.0, 2.0
Secretary - See Pakistan Regional Round (Faisalabad) (Hosted by The University of Faisalabad) (Innovative Ideas Event)

Government College University Faisalabad – Faisalabad, Pakistan

University lecturer in computer science

[08/10/2019 – 13/11/2022]

I am a dedicated lecturer with extensive experience in teaching undergraduate students in BS Computer Science (BSCS), BS Software Engineering (BSSE), and BS Artificial Intelligence (BSAI) programs with maintaining student records. I am committed to providing a supportive and challenging learning environment that encourages student growth and success.

Punjab College Faisalabad – Faisalabad, Pakistan

Lecturer in computer sciences

[18/10/2017 – 13/11/2022]

I am a dedicated lecturer with extensive experience in teaching undergraduate students in BS Computer Science (BSCS), MSc-IT, ADP(CS), programs. My responsibilities include maintaining student records, supervising Final Year Projects (FYPs), and actively participating as a member of the FYP committee. Additionally, I am committed to providing a supportive and challenging learning environment that encourages student growth and success.

 **Government Postgraduate College Samanabad Faisalabad** – Faisalabad, Pakistan

Lecturer in computer sciences

[19/10/2015 – 18/10/2017]

I am a dedicated lecturer with extensive experience in teaching undergraduate students in BS Computer Science (BSCS), BS Information Technology (BSIT), MSc-CS programs. My responsibilities include maintaining student records, supervising Final Year Projects (FYPs), and actively participating as a member of the FYP committee. Additionally, I am committed to providing a supportive and challenging learning environment that encourages student growth and success.

EDUCATION AND TRAINING

MSCS

University of Agriculture Faisalabad, Pakistan [09/09/2016 – 31/12/2018]

City: Faisalabad | Country: Pakistan | Website: <https://web.uaf.edu.pk/>

BSCS

Government College University Faisalabad, Pakistan [09/10/2011 – 18/09/2015]

City: Faisalabad | Country: Pakistan | Website: <https://gcuf.edu.pk/>

Outcome Based Learning

The University of Faisalabad [03/10/2023]

City: Faisalabad | Country: Pakistan | Website: <https://tuf.edu.pk/> | Level in EQF: EQF level 5

SQL Database and SAP Installation

ETDC Hailey College of Commerce, University of the Punjab [02/07/2021]

City: Lahore | Country: Pakistan | Website: <https://www.pu.edu.pk/> | Level in EQF: EQF level 5

Use of Generative AI in Higher Education

Punjab Higher Education Commission [03/09/2024 – 04/09/2024]

City: Lahore | Country: Pakistan

National out reach program for higher education faculty

National academy for higher education HEC [05/05/2025 – 28/05/2025]

City: Nankana Sahib | Country: Pakistan

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING B2 READING C1 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Microsoft – MCP – Microsoft Certified Professional / Microsoft Certified Trainer(MCT), Microsoft / Microsoft Technology Associate, Programming using Python / DATABASE ADMINISTRATION / Web Technologies Fundamentals - HTML, CSS / Javascript(Nodejs, ExpressJs) / SQL/SQL Server / Microsoft/ Microsoft Office

PUBLICATIONS

[2025]

MACHINE LEARNING FOR CHRONIC KIDNEY DISEASE: ADVANCES, CHALLENGES, AND FUTURE RESEARCH

DIRECTIONS Millions of individuals worldwide are affected by chronic kidney disease (CKD), a serious public health issue. To stop CKD from progressing to end stage renal disease (ESRD), early identification and effective care are essential. However, conventional approaches to CKD diagnosis and prognosis are frequently insufficient, resulting in postponed therapy and subpar results. In the field of medicine, especially the diagnosis and prediction of CKD, machine learning (ML) has emerged as a potential approach. Large volumes of data can be analyzed by ML algorithms, which can also identify patterns that may elude human specialists. This may lead to more accurate CKD diagnosis and prognosis calculations, as well as the creation of novel, strong therapeutic approaches. In this article, we examine recent advances in machine learning (ML) in the field of chronic kidney disease (CKD), including research that employed ML to predict treatment outcomes and make diagnoses and prognoses. We also go over the difficulties and restrictions associated with using ML in the study of CKD, as well as potential future lines of inquiry. Our analysis highlights the potential of ML to improve CKD diagnosis, prognosis, and treatment, while also underscoring the need for further research to realize this potential fully.

Authors: Hassan Iftikhar | **Journal Name:** Spectrum of Engineering Sciences | **Volume, Issue and Pages:** Vol.3. Issue.11

[2025]

The introduction of Artificial Intelligence in Medical Education: A Narrative Review of Implementation

Practice, Evaluation, and Methodological Barriers Artificial Intelligence (AI) is changing the face of medical education at an unprecedented rate, providing new opportunities for personalized learning, automated assessment, intelligent tutoring, clinical simulation, and data-driven decision support. Although this adoption is gaining momentum, the use of AI in medical curricula is still disjointed, and there is considerable diversity in the practices and approaches of implementation, assessment, and institutional preparedness. This is a narrative review of the existing data on the applications of AI tools in medical training, their educational utility, practical application, and effects on student learning. The review also presents methodological challenges, such as the inconsistent evaluation schemes, insufficient empirical validation, ethical issues, problems with the curriculum, readiness by faculty readiness, and unclear structural constraints, which are obstacles to scalable and standardized integration. This review offers a clear basis to support the evolution of AI-enhanced medical education by the educator, policymaker, and institutions by mapping the existing practices, defining gaps, and identifying recommendations to be implemented and researched in the future

Authors: Hassan Iftikhar | **Journal Name:** VAWKUM Transactions on Computer Sciences | **Volume, Issue and Pages:** Vol.13, Issue.3

[2025]

Transforming Business in the Digital Age using Artificial Intelligence (AI)

Authors: Hassan Iftikhar , Ahsan Riaz, Nadeem Nazir , Sadaf Noreen , and Marium Azad Khan | **Journal Name:** algorithmic training, future markets, and big data for finance digitalization (BOOK) | **Volume, Issue and Pages:** p 153-174 | **Publisher:** IGI Global

Hassan Iftikhar , Ahsan Riaz, Nadeem Nazir , Sadaf Noreen , and Marium Azad Khan

[2018]

A Structured Approach to Analyze XP Model and Eliminate Drawbacks for Qualitative Development of

Software In this modern age each software company choose a software model for software development. But this companies face many problems to use software model because each software model has some drawbacks. These drawbacks effected the software development. In previous research many software methodologies were adopted for

development. But it a question yet how to select a correct software model which has no drawbacks. In this research XP (Extreme Programming) will be analyzed. This model has some strengthens and weaknesses. The conclusion of this research will to eliminate drawbacks of XP (Extreme Programming). This can be done through analyze different parameters and converse with software developers for parameters to eliminate drawbacks.

(Hassan Iftikhar, Wajeeha Azmat)2018,Journal of Information Engineering and Applications.Vol.8,6-12

Link: <https://www.iiste.org/Journals/index.php/JIEA/article/view/45561/47045>

PROJECTS

[02/2012 – 05/2012]

Car Company Project This project is developed in both MS access and Oracle 8i. The purpose of this project to store data of employees, cars to be sale out and customers who purchase the car.

[02/2013 – 05/2013]

Blood Society This project is developed in C#. The purpose of this project to store data of that person who donate blood and in database blood group is also show. This project also store data of patient who need blood.

[12/2014 – 04/2015]

Course Publishing System Semester This project is developed for students of our University for E-learning of lectures that are uploaded by faculty. Students can upload their assignments on this site and teachers can take quiz online on this site.

[10/2023 – 04/2024]

FreightEase This project specializes in optimizing countrywide transportation and freight chains to ensure smooth countrywide deliveries, addressing the demands of the contemporary countrywide economy reliant on efficient freight & logistics systems. The project employs AGILE methodology and MERN Stack Development technologies, utilizing HTML, CSS, ReactJS for frontend, and ExpressJS, NodeJS, and MongoDB for the backend and tons of APIs. The resulting product boasts additional features, such as customized services, door-to-door delivery for parcels and shipments, integrated admin, vendor and shipper, and loyalty programs, setting it apart from competitors.

[11/2023 – 04/2024]

Online Tutor web Application This project is important because it can transform the educational system to make learning more convenient, accessible, and effective. We address the following two issues: Students and lifelong learners are frequently challenged to locate thorough instructional resources, while educators and tutors struggle to establish a connection with their students. Our main goal is to combine the content from three different websites. Our strategy consists of user-centered design, open evaluations and ratings, instantaneous communication, and a dedication to ongoing development.

HONOURS AND AWARDS

[18/11/2025] Baba Guru Nanak University, Nankana Sahib

Organizer- Fresher's Fiesta Organized Fresh Fiesta, a welcoming event for new students in the CS & IT Department. Responsibilities included coordinating activities, managing logistics, and ensuring a warm and engaging experience for newcomers, helping them integrate into the department and fostering a sense of community.

[18/06/2024] Baba Guru Nanak University, Nankana Sahib

Organizer- Tech Spark Coordinated and managed Tech Spark 2024, an innovation showcase at BGNU, where students and participants presented their innovative ideas and technological projects. Responsibilities included planning the event, coordinating participants, managing logistics, and ensuring smooth execution, fostering a platform for creativity, problem-solving, and technological exploration.

[24/10/2024] Baba Guru Nanak University, Nankana Sahib

Organizer - ICAST Conference 2024 Served as an organizer for the International Conference on Applied Science & Technology (ICAST) 2024 at BGNU. Responsibilities included coordinating the schedule of presentations, managing

logistics, assisting speakers and participants, and ensuring smooth execution of conference sessions. Played a key role in facilitating an academic platform for knowledge sharing, networking, and research dissemination.

[03/08/2023] The University of Faisalabad

Significant Contributor - SEE Pakistan (World Startup Championship 2023) As a dedicated University Secretary, I played a pivotal role in fostering collaboration and synergy among various academic institutions in the realm of innovative software ideas. My responsibilities included facilitating seamless communication and coordination between universities, ensuring the successful exchange of groundbreaking concepts and initiatives.

VOLUNTEERING

[04/03/2025 – Current] Nankana Sahib

Focal Person - Scheme of Studies - Department of CS & IT- Baba Guru Nanak University, Nankana Sahib

Served as the Focal Person for the Scheme of Studies, coordinating the development, review, and implementation of academic curricula for the Computer Science & IT Department. Responsibilities included collaborating with faculty, ensuring alignment with academic standards, maintaining course records, and facilitating curriculum-related processes. Played a key role in ensuring the quality, consistency, and smooth administration of departmental programs.

[25/05/2025 – Current] Nankana Sahib

Internal Controller of Examinations- Department of CS & IT - Baba Guru Nanak University, Nankana Sahib

Managed internal examination processes for the Computer Science & IT Department, including preparing exam schedules, coordinating with faculty and students, monitoring exam conduct, and ensuring adherence to academic policies. Played a key role in maintaining the integrity, accuracy, and smooth administration of departmental examinations.

[10/12/2024 – Current] Nankana Sahib

Manager ORIC - Baba Guru Nanak University, Nankana Sahib

Managed the Office of Research, Innovation, and Commercialization (ORIC), overseeing research projects, innovation initiatives, and collaboration with industry and academic partners. Responsibilities included coordinating research activities, supporting faculty and students in grant applications, monitoring project progress, and facilitating knowledge transfer and commercialization of research outputs. Played a key role in promoting a research-driven culture and fostering innovation within the university.

[20/06/2023] Faisalabad

Secretary - The University of Faisalabad

As a dedicated University Secretary, I played a pivotal role in fostering collaboration and synergy among various academic institutions in the realm of innovative software ideas. My responsibilities included facilitating seamless communication and coordination between universities, ensuring the successful exchange of groundbreaking concepts and initiatives.

[17/06/2024] Faisalabad

Secretary- Regional Round - Faisalabad (See Pakistan)

Served as Secretary for the Faisalabad Regional Round of SEE Pakistan, coordinating event logistics, managing participant communications, and assisting the organizing team. Played a key role in ensuring smooth execution of the event and supporting competitive activities, contributing to a professional and well-structured program.

MANAGEMENT AND LEADERSHIP SKILLS

Leadership

I possess strong leadership skills, demonstrated through my role in coordinating and guiding students through their academic and professional journeys. I effectively manage classroom environments, lead project teams, and mentor students, fostering a collaborative and innovative learning atmosphere. My leadership extends to organizing and overseeing various academic and extracurricular activities, ensuring they are executed smoothly and meet their objectives. I am committed to providing a supportive and challenging learning environment that encourages student growth and success.

Communication Skills

I possess strong communication skills, which are essential for effectively conveying complex concepts to students and fostering a collaborative learning environment. My ability to communicate clearly and effectively has been instrumental in guiding students through their academic journeys and supporting their overall development. I am committed to providing a supportive and challenging learning environment that encourages student growth and success.

Presentation Skills

I possess strong presentation skills, which are crucial for effectively delivering course material and engaging students in the learning process. My ability to present complex concepts in a clear and understandable manner has greatly enhanced the educational experience for my students. These skills have also been essential in conducting successful workshops, seminars, and industrial tours. I am committed to providing a supportive and challenging learning environment that encourages student growth and success.

Team Lead

I possess strong team leadership skills, which have been demonstrated through my roles in supervising FYPs and coordinating with various faculty members. As a team leader, I have successfully managed and motivated student groups, ensuring that projects are completed on time and meet high standards. My leadership has fostered a collaborative and productive environment, encouraging creativity and innovation among students and colleagues alike. I am committed to providing a supportive and challenging learning environment that encourages student growth and success.