

Mohsin Ramzan

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Rahim Yar Khan, Punjab - 64200, Pakistan

ABOUT

Third-year Computer Science undergraduate with a passion in scientific research, specifically in artificial intelligence and machine learning. Work includes a forthcoming academic publication and authorship of a programming book aimed at bridging theory and practice. Founder of *The Wise Sapiens*, a nonprofit initiative focused on advancing scientific discourse. Also a Harvard-certified Web Application Developer with practical training in building scalable, full-stack applications.

EXPERIENCE

- **Khwaja Fareed University of Engineering & Information Technology (KFUEIT)** *Jan 2024 – Present*
Undergraduate Research Assistant
Department of Computer Science
 - Assisted seniors and faculty in AI/ML-related research projects, contributing to experiment design, data preparation, and model validation.
 - Reviewed academic articles, research papers, and student thesis for content quality, relevance, and academic integrity.
 - Addressed and resolved plagiarism issues using critical rephrasing and manual cross-referencing.
 - Collaborated on article writing in Latex (L^AT_EX), focusing on formatting, structure, and reference management.
 - Supported ongoing publication efforts by organizing citations, refining figures, and conducting literature reviews.
 - Led a small undergrad research team, handling dataset acquisition to manuscript publication, overseeing experimentation, workflow design, writing, and visual documentation.
- **The Wise Sapiens [🌐]** *Sep 2023 – Present*
Founder & Web Developer
 - Founded a nonprofit scientific organization to promote science literacy and public engagement with STEM.
 - Manage and maintain the organization's web platform, implementing responsive design and content updates.
 - Contribute to science communication by writing blog articles and managing a content production team.
 - Coordinate online events such as webinars, hackathons, and book reviews.
 - Collaborate on production of short-form educational media including scientific reels and awareness videos.

EDUCATION

- **Khwaja Fareed University of Engineering & Information Technology (KFUEIT)** *Sept 2023 - Jun 2027*
Computer Science
Rahim Yar Khan, Pakistan
 - GPA: 3.64 / 4.00
- **National Institute of Computer and Advance Studies** *April 2023*
Pre-University Education
Rahim Yar Khan, Pakistan
 - Grade: 70%
- **Govt. High School Comprehensive** *March 2020*
Secondary Education
Rahim Yar Khan, Pakistan
 - Grade: 90%

PROJECTS

- **Mango Disease Classification** *Jun 2025*
Tools: Python, Django, Hugging Face, HTML/CSS, Bootstrap, PyTorch, TensorFlow, FastAPI
Mango Fusion [🌐]
 - Introduced a Novel Dynamic Attention base fusion model to classify disease in Mango leaf and fruit.
 - Allow user to test both - single and double modalities
 - Independence of testing across four models and three input modes.
- **CogitoGPT - A research oriented ChatBot** *Aug 2025*
Tools: Python, Django, HuggingFace, HTML/CSS, Vercel, JavaScript, RestAPI's
CogitoGPT [🌐]
 - AI-powered research-oriented chatbot application that utilize Mistral-7B-Instruct-v0.3 model to provide intelligent, relevant, concise and context-aware summarization and answer of user queries in real-time on research articles.
- **KFUIET Bus Management System – University Transportation Web App** *Nov 2023 – Jan 2024*
Tools: Python, Django, SQLite, HTML/CSS, Bootstrap
Bus System [🌐]
 - Developed a centralized web platform to manage university bus routes, driver details, and lost item complaints.

- Enabled dynamic updates for routes and drivers via an admin dashboard.
- Improved accessibility of transport data through a user-friendly interface.

- **Bidraze – Built for Auction Management**

Tools: *HTML/CSS, JavaScript, Django, Bootstrap*

July 2023

[BidRaze](#) [

- Designed a bidding platform with user accounts, listing creation, bidding logic, and auction closing.
- Implemented authentication and real-time bid updates using Django backend logic.

- **Conectify – Social Networking Application**

Tools: *Django, JavaScript, HTML/CSS, SQLite*

May 2023

[Conectify](#) [img]

- Built core social features including posting, following, and user profile handling.

- Developed backend logic for user feeds, interaction history, and dynamic post rendering.

- **MBox – A minimalist Mail Box**

Tools: *Python, Django, HTML/CSS, JavaScript*

Feb 2024

[MBox](#) [img]

- MBox is a dynamic, single-page mail application built using Django for the backend and JavaScript (ES6) for frontend interactivity.
- Inspired by Gmail, this project demonstrates how to implement core email functionalities in a full-stack web environment.

- **Virtual Mall – Console-Based Simulation in C++ & Java**

Tools: *C++, Java, OOP, File I/O*

Feb 2023

[Virtual Mall](#) [img]

- Simulated an interactive shopping mall with section navigation, item selection, and cart summary.
- Utilized Object-Oriented Programming principles for modularity and flexibility

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS, B=BOOK

[B.1] Mohsin Ramzan. (2024). **The Programmer's Path with Java**. The Wise Sapiens. ISBN: 9786277726010. Paperback, 298 pages. Published: September 25, 2024.

[J.1] **Intelligent Emergency Vehicle Sound Classification for Public Safety**. *Kashf Journal of Multidisciplinary Research*, 1(12), 141–152. DOI: 10.71146/kjmr161

[S.1] Muhammad Mohsin, et al. (2025). **A Novel Framework Integrating Classical and Deep Learning Models for Prostate Cancer Detection on Imbalanced Epidemiological Dataset**. Manuscript under review in *BMC Medical Informatics and Decision Making*.

[S.2] Muhammad Mohsin, et al. (2025). **Dual-Modality Fusion for Mango Disease Classification Using Dynamic Attention-Based Ensemble of Leaf and Fruit Images**. Currently Underreview.

SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, C
- **Web Technologies:** HTML, CSS, Django, Bootstrap
- **Database Systems:** SQLite, MySQL, PostgreSQL
- **Data Science & Machine Learning:** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Matplotlib
- **Cloud Technologies:** Google Colab, Firebase, Render, Kaggle
- **DevOps & Version Control:** Git, GitHub, GitLab, Docker, Bash
- **Specialized Area:** Computer Vision, Deep Learning, Multi-Modal Learning, Image Classification
- **Mathematical & Statistical Tools:** LaTeX, Excel, SciPy, SymPy, Jupyter
- **Other Tools & Technologies:** VS Code, Adobe Premiere Pro, PicsArt, Snapseed, Notion, Caput, Canva
- **Research Skills:** Scientific Writing, Literature Review, Research Article Formatting, Reference Management, Plagiarism Detection, LaTeX Typesetting, Survey Design, Experimental Design, Academic Collaboration, Journal Submission Workflow

LEADERSHIP EXPERIENCE

- **Founder & President**

The Wise Sapiens

June 2023 – Present

[img]

- Established a nonprofit scientific organization to promote STEM education and scientific literacy among youth.
- Led a multidisciplinary team to organize online hackathons, science talks, and educational initiatives reaching tens of participants.
- Directed the design and maintenance of the official website, authored science blogs, and oversaw production of short-form educational videos.

- **Director Content Writer & Editorial Board Member**

KFUEIT Media Club

Sep 2024 – April 2025

- Led the university's English editorial content, contributing articles and refining official publications and magazine content.
- Reviewed and edited student magazine submissions, ensuring quality, clarity, and grammatical precision.
- Mentored junior writers and collaborated on university-wide media campaigns and storytelling initiatives.

- **Executive Member**

Sep 2023 – Present

KFUEIT Readers and Writers Club

- Co-organized and hosted book talks, intellectual dialogues, and interactive sessions across literature, science, and philosophy.
- Promoted critical thinking through theme-based events and helped build a vibrant community of student readers and writers.

CERTIFICATIONS

• Unsupervised Learning, Recommenders, Reinforcement Learning	<i>Jul 2025</i>
• Advanced Learning Algorithms	<i>Jul 2025</i>
• Supervised Machine Learning: Regression and Classification	<i>Jun 2025</i>
• CS50's Web Programming with Python and Django	<i>Sep 2024</i>
• Version Control	<i>Mar 2024</i>
• Introduction to HTML5	<i>Jan 2023</i>
• Introduction to CSS3	<i>Apr 2023</i>
• Interactivity with JavaScript	<i>May 2023</i>
• Advanced Styling with Responsive Design	<i>May 2023</i>
• Psychological First Aid	<i>Aug 2023</i>