

# 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<sup>A</sup>T<sub>E</sub>X), 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** [mo](#)  
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[mo](#)
  - 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[mo](#)
  - 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[mo](#)
  - 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** July 2023  
BidRaze   
Tools: HTML/CSS, JavaScript, Django, Bootstrap
  - 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** May 2023  
Conectify   
Tools: Django, JavaScript, HTML/CSS, SQLite
  - 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** Feb 2024  
MBox   
Tools: Python, Django, HTML/CSS, JavaScript
  - 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** Feb 2023  
Virtual Mall   
Tools: C++, Java, OOP, File I/O
  - 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** June 2023 – Present  
  
*The Wise Sapiens*
  - 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** Sep 2024 – April 2025  
*KFUEIT Media Club*

- 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

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