



# Anjum ALI

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**Gender**: Male **Date of birth**: 18/10/1993 **Nationality**: Pakistani

## ABOUT ME

I am a dedicated researcher and educator with a Master's degree in Software Engineering. With over five years of teaching experience at Riphah International University and Madina Group of Colleges, I specialize in software engineering and computer science. My research has advanced disease detection in cotton and brain tumor detection using deep learning. Proficient in Python, TensorFlow, and SQL, I excel in AI and Project Management. I am eager to bring my expertise to a PhD program, where I can contribute to cutting-edge research and further develop my skills in a dynamic academic environment.

## WORK EXPERIENCE

[ 25/10/2022 – Current ]

### Lecturer (Software Engineering)

Riphah International University, Faisalabad, Pakistan

[ 15/08/2017 – 25/07/2021 ]

### Lecturer (Computer Science)

Madina Group of Colleges, Faisalabad, Pakistan

## ORGANISATIONAL SKILLS

### DEC (Departmental Exam Coordinator)

Department of Computing

Riphah International University, Faisalabad, Pakistan

### FYP (Final Year Project) Coordinator

Department of Computing

Riphah International University, Faisalabad, Pakistan

## EDUCATION AND TRAINING

[ 2019 – 2022 ]

### Masters of Science (MS) in Software Engineering

*University of Agriculture, Faisalabad, Pakistan*

**Field(s) of study**: Software Engineering | **Thesis**: Boll Rot Disease Detection in Cotton Using Deep Learning

[ 2013 – 2015 ]

### Master of Science (M.Sc.) in Computer Science

*University of Agriculture, Faisalabad, Pakistan*

**Field(s) of study**: Computer Science

[ 2011 – 2013 ]

### Bachelor of Science (B.Sc.) in Computer Science

*University of Punjab, Lahore, Pakistan*

**Field(s) of study**: Computer Science, Mathematics, Physics

## CERTIFICATIONS

### Artificial intelligence with Python

PIAIC (Presidential Initiative for Artificial Intelligence & Computing)

**Executive Data Science**

Coursera (Johns Hopkins University)

**Software Project Management**

Coursera (Google)

**Software Quality Assurance**

LinkedIn

**CCNA (Routing and switching)**

CORVIT Systems Faisalabad, Pakistan

**PUBLICATIONS**

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[ 2024 ] **Automated Brain Tumor Detection via Transfer Learning Techniques**

Moeez Bin Nadeem<sup>1</sup>, **Anjum Ali<sup>1\*</sup>**, Muhammad Waqas Aziz<sup>1</sup>, Muhammad Umar Ghani<sup>2</sup>, Ghulam Mustafa<sup>1</sup>, and Ahmad Bilal Farooq. Journal of Computing & Biomedical Informatics, ID: 477-0701/2024. <https://doi.org/10.56979/701/2024>.

[ 2024 ] **BLOCKCHAIN-POWERED ACCOUNTABILITY IN PHARMACEUTICAL SUPPLY CHAINS**

M. Azam Zia, Anjum Ali, Mariam Gilani, Mehmood, D. F., Sami Ullah, & Irfan Anwar. (2024). BLOCKCHAIN-POWERED ACCOUNTABILITY IN PHARMACEUTICAL SUPPLY CHAINS. *Agricultural Sciences Journal*, (1). Retrieved from <https://asj.mnsuam.edu.pk/index.php/asj/article/view/367>

[ 2023 ] **Boll Rot Disease Detection in Cotton Using Deep Learning**

**Reference:** <https://doi.org/10.56520/asj.v5i1.253>

Anjum Ali, Muhammad Azam Zia, Muhammad Ahsan Latif, Sukana Zulfqar, & Muhammad Asim. (2023). A COMPARATIVE STUDY OF DEEP LEARNING TECHNIQUES FOR BOLL ROT DISEASE DETECTION IN COTTON CROPS. *Agricultural Sciences Journal*, 5(1), 58–71. <https://doi.org/10.56520/asj.v5i1.253>

**DIGITAL SKILLS**

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**My Digital Skills**

Text processing (Word, LaTeX) | Python, Scikit-Learn, Numpy, Matplotlib | Pytorch, Tensorflow | Database: Oracle, SQL, SQL Lite

**PROJECTS**

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**Brain Tumor Detection via Deep Learning**

- Procured medical imaging data from Kaggle.
- Developed a robust deep-learning model. Applied advanced transfer learning techniques for significant performance improvements.
- Achieved higher accuracy with optimized parameters.
- Engineered the model for speed, ensuring real-time applicability.
- Enhanced precision in brain tumor detection.
- Reduced false positives and negatives, demonstrating system reliability.
- Showcased strong AI and deep learning expertise through critical thinking in model development and optimization

### **Retina Scan: An application to detect Diabetic Retinopathy**

- Procured dataset from Kaggle, curated and uploaded by Google.
- Trained a base model for diabetic retinopathy detection.
- Applied advanced transfer learning using ResNet-152 and EfficientNet architectures for improved model performance.
- Developed a Python Django web application for seamless implementation.
- Designed the model to classify retinal scans into two classes: one with diabetic retinopathy and the other without.
- Demonstrated leadership skills in coordinating the project team.
- Implemented a user-friendly web app interface for efficient utilization

### **Early Stage Skin Cancer Detection**

- Utilized a Kaggle dataset for early-stage skin cancer detection.
- Increased its accuracy.
- Implemented class balancing, augmentation, and thorough data preprocessing techniques for dataset enhancement.
- Trained a base model for initial detection capabilities.
- Applied transfer learning using the EfficientNet architecture to enhance the model's performance.
- Designed and will implement the solution in a Python Django web app.
- The model accommodates multiple classes for accurate and early detection of various skin cancer stages.

## **LANGUAGE SKILLS**

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**Mother tongue(s):** Urdu **Other language(s):** English

## **REFERENCES**

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### **Dr Muhammad Amjad**

Assistant Professor

Department of Computing

Riphah International University, Faisalabad, Pakistan

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### **Dr Muhammad Rizwan**

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### **Ghulam Mustafa**

Lecturer

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