

Iffat Fatima

Lecturer, Fazaia Bilquis College of Education for Women Nurkhan, Rawalpindi
iffatfatima445@gmail.com — +92 (304) 8522251 — www.github.com/iffat-12 — www.github.com/iffat-12

RESEARCH INTERESTS

Federated Learning, Medical Image Processing, Distributed Systems, Deep Learning

EDUCATION

FAST NUCES, Islamabad Sept 2022 — June 2024
Master of Science in Artificial Intelligence
Thesis Title: Early Detection of Alzheimer’s Disease using Personalised Federated Learning and GANs. ([Link](#))

PMAS Arid Agriculture University, Rawalpindi, Sept 2019 — Aug 2021
Masters in Computer Science (MCS)

ACADEMIC EXPERIENCE

Fazaia Bilquis College of Education for Women Nurkhan Rawalpindi
Lecturer (Computer Science) Feb 2025 — Present

- Delivered OBE-compliant undergraduate courses including Object-Oriented Programming, Cloud Computing, Digital Logic Design, Parallel and Distributed Computing, and Applications of ICT in alignment with NCEAC standards.
- Developed CLO-PLO mappings, assessment rubrics, and Continuous Quality Improvement (CQI) reports to support academic quality assurance.
- Supervised software and hardware-based student projects, mentoring teams from design to implementation, resulting in award-winning and industry-oriented solutions.
- Served as Internship Coordinator, managing industry placements, employer liaison, and internship assessment to enhance student employability and professional readiness.

RESEARCH & PUBLICATIONS

Makara Journal of Technology

Accepted for Publication (In Press)

I. Fatima, U. Iqbal, U. Ishtiaq, and B. U. I. Khan, "Early Detection of Alzheimer’s Disease Using Personalized GANs-Based Federated Learning: A Data-Driven Approach."

PROJECTS SUPERVISED

Crash N Play Spring 2026

Tile Matching Game including Emoji Crush and Chess Crush modules.

AI Powered Food and Nutrition Assistant with Video Consultation Spring 2026

Meal Plan Generation along with AI-Powered Chatbot
Schedules Video Consultation with certified Nutritionists

FYP Registration and Plagiarism Detection System Using AI Spring 2026

Automated Assessment checking and Plagiarism detection by using S-BERT.
Also supports new FYP registration and tracking in the database.

Kiddie Learning App Spring 2025

Animated Poems for kids along with in-app YouTube videos

HEART IQ AN ANDROID APP Spring 2025

Heart disease prediction using multiple ML classifiers (RF, SVC, KNN etc.).
Optimized Random Forest achieving the highest accuracy of 86%

SKILLS

Technical Skills

Python (TensorFlow, PyTorch, Scikit-learn)
Amazon Web Services (EC2, Lambda, IAM users)
Google Cloud Platform (Google Login and Analytics)
Natural Language Processing (OpenAI Chatbot)
Roboflow Data Annotations & Training

Research Skills

Data Analysis (Pandas, NumPy, and Matplotlib)
Machine Learning (Random Forest, XGBoost, KNN etc.)
Optimization and Hyperparameter Tuning (Grid search)
Deep Learning (CNN, ResNet50, LeNet, UNet etc.)
Literature Review and Technical Research

SELECTED COURSES

Master's Courses

Machine Learning
Deep Learning
Cloud Computing
Data Science

Bachelor's Courses

Programming Fundamentals
Object-Oriented Programming
Artificial Intelligence

OTHER EXPERIENCES

SoftStream.ai

Project Coordinator

London, United Kingdom

Aug 2024 — Jan 2025

- Managed a cross-functional team of 4 engineers, overseeing project planning, execution, and delivery.
- Directed multiple AI/ML initiatives from requirements gathering to deployment and maintenance.
- Led cloud-based deployment and optimization of machine learning solutions on AWS.
- Facilitated Agile workflows, sprint planning, stakeholder coordination, and performance tracking.