

# Rana Muhammad Adeel

AI/ML Engineer

Fresh Graduate with deep expertise in Deep Learning, Computer Vision, and Full-Stack Development, specializing in building AI-powered web applications like **RetinaScout** that solve complex, real-world problems.



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📍 Mianwali, Pakistan

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## EDUCATION

### Bachelor Science in Computer Science

Namal University Mianwali

Nov 2022 - July 2026

CGPA 3.27

- Object Oriented Programing, Data Structures and Algorithms, Software Engineering, Parallel and Distributed Computing, Calculus, Operating System, Computer Networks, Artificial Intelligence, Machine Learning, Discrete Mathematics, Operating System, Information & Cyber Security, Natural Language Processing

## PROJECTS

### RetinaScout: Medical Image Segmentation System

Final Year Project (Nov 2025 - Present)

- Engineering a web-integrated deep learning system using U-Net, Python, and PyTorch to segment retinal diseases from fundus images, while optimizing diagnostic accuracy through CLAHE preprocessing and advanced data augmentation.

### AetherTalk: Decentralized P2P Messaging Platform

Course Project – Parallel & Distributed Computing (Nov 2025 - Jan 2026)

- Developed a decentralized P2P chat application with end-to-end encryption, digital signatures, real-time messaging, file sharing, and group chat using React, PeerJS, and WebRTC.

### VPN Based Packet Classification

Course Project – Data Analytics & Visualization (Mar 2025 - June 2025)

- Analyzed network traffic data to classify VPN and non-VPN packets using machine learning techniques. Applied data preprocessing, exploratory analysis, and visualization methods to uncover traffic patterns and improve classification accuracy.

## WORK EXPERIENCE

### Software Engineer Intern

Speridian Technologies, Multan (July 2025 - Sep 2025)

- Acquired full-stack proficiency by studying [ASP.NET Core](#) and [Transact SQL](#) for backend logic, alongside [Angular \(TypeScript\)](#), [Bootstrap](#) and [HTML/CSS](#) for responsive web design.

### Teaching Assistant Programming Fundamentals

Namal University Mianwali (Aug 2023 - Feb 2024)

- Assisted students with core programming concepts, debugging, and improving problem-solving skills through interactive sessions and feedback.

## SKILLS

Python

C#

JavaScript

Angular

Pytorch

Data Analytics

Machine Learning

Deep Learning

NLP

CNN

RNN

SQL

Git

FastAPI

Bootstrap

Data Analytics

Network Designing

Cisco Packet Tracer

## ACHIEVEMENTS

### 3rd Position in Competitive Programming

PSIFI Hack, 16th Edition, Lahore University of Management Sciences, Lahore (Dec 2024)

### 3rd Position in Competitive Programming

Visio Spark 2024, 20th Edition, COMSATS University Islamabad, Wah Campus (Dec 2024)

### Participated in National Level Debating Championship

Pakistan Universities Debating Championship, Punjab Region, University of Punjab, Lahore (Feb 2024)

## ORGANIZATIONS

### Namal Computing Society

President (Nov 2025 - Present)

### IEEE Student Branch Namal

Public Relations Coordinator (May 2025 - March 2026)

### Namal Dramatics Club

Head Activities (Nov 2024 - April 2025)

## CERTIFICATES

### Host Culture Fest 2024

Namal Society for Social Impact

### Host Rangmanch 2.0 2024

Namal Dramatics Club

## LANGUAGES

### English

Professional Working Proficiency

### Urdu

Native or Bilingual Proficiency