



Muhammad Umar

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ABOUT ME

I am a dynamic and passionate Computer Systems Engineer with expertise in Machine Learning and Deep learning. I have a proven ability to lead and manage projects. I am committed to using modern tools and technology to solve real-world problems. I am experienced in developing and deploying machine learning models. I have excellent communication and teamwork skills.

EDUCATION AND TRAINING

BS Computer Systems Engineering

University of Engineering and Technology Peshawar [2019 – 2023]

City: Peshawar

Country: Pakistan

Final grade: 2.6/4.0

FSc Pre-Engineering

Ideal College Peshawar [2017 – 2019]

City: Peshawar

Country: Pakistan

Final grade: 950/1100

Matric Science

Ummah Children Academy [2015 – 2017]

City: Nowshera

Country: Pakistan

Final grade: 1008/1100

Diploma in Information Technology

Frontier Institute of Technology Charsadda [2022 – 2023]

City: Charsadda

Country: Pakistan

Final grade: 1164/1400

WORK EXPERIENCE

Software Engineer

NanoIT Solutions [Apr 2023 – Current]

City: Peshawar

Country: Pakistan

As a software engineer at NanoIT Solutions, I worked on Unity3D game development and immersive technologies, with hands-on experience in VR.

Machine Learning Project Intern

Artificial Intelligence in Healthcare [Dec 2022 – Jan 2023]

City: Peshawar

Country: Pakistan

We worked on the prediction of blood-related diseases using AI, particularly RBC which is comprised of an image segmentation process, for which we used UNET architecture.

Software Developer

ERISP Company [Jul 2022 – Sep 2022]

City: Peshawar

Country: Pakistan

As an intern, I got the opportunity to learn and gain hands-on experience with the Odoo framework, Odoo modules, and testing and debugging code in Python and XML.

Teaching Assistant

University of Engineering and Technology Peshawar [Jan 2022 – Dec 2022]

City: Peshawar

Country: Pakistan

As a teaching assistant, I worked with the professor to facilitate learning for students, which included grading assignments, lab reports and exams, providing assistance to students who needed extra help, organizing and running labs and holding office hours to answer questions and provide guidance to students.

Head Campus Ambassadors

Youth Impact [Mar 2023 – May 2023]

City: Islamabad

Country: Pakistan

Head Campus Ambassador for Markhor Junior, a prestigious youth leadership program. I lead a team of 10 dedicated Campus Ambassadors. Driven engagement and achieved targets through innovative marketing strategies and impactful events.

DIGITAL SKILLS

Python libraries (NumPy, Pandas, Keras, SciKit-Learn, TensorFlow, Matplotlib, Seaborn) / Computer Programming / Research and Development / Machine Learning and Deep Learning / Software Development / programming: Python, MATLAB and SQL / Scientific Writing (Scientific Paper Publication) / Microsoft Office / 3D Content Creation Unity3D / C# and OOP Programming / Neural Networks in Deep Learning / Website Design and Development

PROJECTS

Deepfake Detection using Deep Learning

We developed and implemented deep learning models for deepfake detection. I along with my final year project group members worked to research and develop new techniques for deepfake video detection using CNN, LSTM and GAN architectures.

Clinical Doctor System Website

In our DBMS semester project, I created a website for the Clinical Doctor System, which includes the frontend in HTML, CSS and JavaScript and blackened for managing patients booking of doctors in the Laravel framework.

Tweet Classification in Python

I did this guided project on DataCamp in which I developed and implemented deep learning models for tweet classification in python.

Car Racer Game in Unity3D

In this project, I created a game in Unity3D using C# programming language, took assets from the Unity asset store and used Visual Studio for scripting.

Predict Blood Donation

In this project, I trained and evaluated a machine learning model i.e. logistic regression for binary classification and predicted blood donation in python.

Real Estate Price Prediction Using Machine Learning

I learned from YouTube and developed a real estate price prediction model that can predict prices with an accuracy of 90%.

Company Website Project

In my Bachelor's degree, I developed a full website for a company in HTML, CSS and JavaScript. The website can be checked on the domain www.a4usquad.com.

VOLUNTEERING

Executive Member

[Guide Motivate and Support Organization]

As a volunteer at GMS, I was able to help promote the organization's mission and increase awareness of GMS mission as my role was to lead the Media of the organization.

District Focal Person

[Ummah Welfare Trust Pakistan]

As a focal person at UWT Pakistan, I was able to collect funds and manage district Charsadda charity boxes and donation campaigns.

District Records Head

[The Blood Heroes]

As the Record head for The Blood Heroes, I was responsible for managing and maintaining all donors and attendant records for the organization.

MLSA Volunteer

[MLSA Community Peshawar]

As a volunteer at MLSA UETP, I was able to help the community, create social impact, and support the team with soft and technical skills.

Content Writer

[HOPE Welfare Organization]

I volunteered the organization to write all the content for the social media.

HONOURS AND AWARDS

DYO Youth Award

District Youth Affairs Office Charsadda

Our volunteer activities were appreciated by the government officials and then awarded me an award.

Winner of Essay Writing Contest

University of Engineering and Technology Peshawar

In University I participated in an Essay Writing Competition and was declared the first position holder.

University Scholarship Winner

Ummah Welfare Trust Pakistan

I got 80% marks in ETEA Engineering Test and got a full scholarship for BS degree.

CONFERENCES AND SEMINARS

Google Developer Seminar Peshawar

[Google Developers Group]

In this seminar, I met with a network of software developers and then attended a hands-on workshop related to Google technologies.

Compass'23

[Youth Impact]

At the Compass'23 conference, they emphasized the importance of teamwork, leadership, and the right direction for youth and social action projects.

Youth Leadership Conference

[DYO Charsadda]

YLC was 3 days of leadership and personal development training at Kalam KP Pakistan.

Python Programming Workshop MLSA

[UET Peshawar]

I attended a one-day Python programming hands-on workshop organized by the MLSA community Peshawar.

TBH Annual Summit

[The Blood Heroes]

I attended a 2-days annual summit of THB mainly focusing on awareness related to Thalassemia disease and blood donation.

HOBBIES AND INTERESTS

Calligraphy

I usually do fancy and stylistic writing.

Hiking

I usually go to hike and like it most.

Reading

Reading is my favourite hobby and read a few books.

COMMUNICATION AND INTERPERSONAL SKILLS

Presentation

Leadership

Team Work

Problem Solving

Communication

Active Listening

CERTIFICATIONS

Specialization Mathematics for Machine Learning and Data Science

Coursera

Supervised Machine Learning: Regression and Classification

Coursera

Neural Networks and Deep Learning

Coursera

Crash Course on Python

Coursera

Image Processing OnRamp

MathWorks

AI for Everyone

Coursera

Unity C# Scripting : Complete C# For Unity Game Development

Udemy

Intermediate Python

DataCamp

How to Write and Publish a Scientific Paper (Project-Centered Course)

Coursera

Google Digital Garage

Google

LANGUAGE SKILLS

Mother tongue(s): **Pashto**

Other language(s): **English** | **Urdu**

RESEARCH INTERESTS

Machine Learning and Deep Learning

- Fault Diagnosis Using Deep Learning
- Pipeline Leak Detection
- Digital Image Processing and Analysis
- Image Clustering Deep Learning
- Image Segmentation Using Deep Learning
- CNN, LSTM, RNN and GAN architectures

RECOMMENDATIONS

Assistant Professor

Name: Dr. Arbab Masood Ahmad

Email: arbabmasood@uetpeshawar.edu.pk

Assistant Professor in the Department of Computer Systems Engineering at the University of Engineering and Technology Peshawar

Lecturer

Name: Dr. Muniba Ashfaq

Email: muniba@uetpeshawar.edu.pk

Lecturer in the Department of Computer Systems Engineering at University of Engineering and Technology Peshawar