

Muhammad Salman Aziz

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Education

University of Engineering and Technology
BSc Electrical Engineering, Communication.
GPA: 3.70/4.0

Peshawar, PK
July 2024

Thesis: Blind Vision A computer vision based Assistive Technology for blind people

Experience

Center for Intelligent Systems and Network Research

Peshawar, PK

Machine Learning Engineer Intern

Oct 2023 – Feb 2024

- Designed an object detection system using SSD and YOLO to identify meter readings, improving accuracy by 20% over traditional methods.
- Developed a pipeline for preprocessing and labeled 5000+ images, significantly enhancing training data quality.
- Led a team of two to achieve high-performance results on a critical dataset.

Nayatel

Islamabad, PK

Network Engineer Intern

Sep 2022 – Oct 2022

- Troubleshoot network connectivity issues, improving resolution times by 30% using tools like ping and traceroute.
- Built subnetting solutions and optimized DNS configurations to streamline internal network management skills

Achievements

- Top 25% Talent Globally:** Recognized for exceptional skills and performance in global talent evaluation platforms.
- Top 3% of Engineering Batch:** Ranked among the top 3% of students in the Electrical Engineering cohort based on academic performance.
- Prime Minister Laptop Scheme:** Awarded to the top 4 students in the batch for academic excellence
- Pakistan Navy Merit Scholarship:** Secured for outstanding academic achievements.
- Punjab Group of Colleges Academic Scholarship:** For outstanding SSC results

Skills

- Programming:** Python | C++ | SQL
- AI/ML Frameworks:** TensorFlow | PyTorch | Hugging Face | scikit-learn
- NLP:** NER | Tokenization | Word Embeddings | Machine Translation | Prompt Engineering | NLTK.
- Computer Vision:** Image classification | Object detection | Image segmentation | YOLO | OpenCV
- LLMs:** GPT | Llama | Gemini
- MLOps:** mlflow | CI/CD | dvc | Docker
- Deployment:** Streamlit | Hugging Face Spaces

Projects

Opportunities Nexus Platform | International Hackathon

Nov 2024

- Created a platform to help students find universities, professors, and funding opportunities.
- Integrated AI-powered chatbot using Llama 3.1, delivering personalized guidance to 100+ users.
- Recognized by lablab.ai for innovative design and seamless user experience.

Blind-Vision Final Year Project	Jul 2024
<ul style="list-style-type: none"> Developed an assistive technology for visually impaired individuals using YOLOv8, OCR, and text-to-speech systems. Deployed on Raspberry Pi 5, enabling real-time object detection with a user-friendly interface Reduced processing latency by 15% through algorithm optimization 	

Conversational AI Chatbot	Apr 2024
<ul style="list-style-type: none"> Built a chatbot with Groq API and Llama 3.1, providing interactive responses via a Gradio UI. Achieved deployment efficiency by utilizing Hugging Face Spaces. 	

Fake News Detection using Machine Learning	Oct 2023
<ul style="list-style-type: none"> Constructed a pipeline for preprocessing and trained an RNN model to detect fake news with 85% accuracy. Analyzed model performance to refine detection accuracy and reduce false positives. 	

Traffic Sign Detection and Translation	Dec 2023
<ul style="list-style-type: none"> Utilized YOLOv8 for real-time traffic sign detection and translation, achieving 90% accuracy across 10 categories. 	

Leadership & Activities	
<ul style="list-style-type: none"> Hackathon Participant: Designed impactful solutions in AI Agents and MindsDB Hackathon by LabLab.ai. DSA Enthusiast: Solved 70+ leet code problems, focusing on algorithmic efficiency. Project Leadership: Directed the "Blind Vision" project for assistive technology development. Event Organizer: Managed logistics for a school-level award ceremony. Professional Memberships: Member of IEEE and IEEE Computer Society. 	

Trainings	
Essential Generative AI Training Pak Angels	Jul 2024 – Sep 2024
Artificial Intelligence Bootcamp atom camp	Jun 2024 – Sep 2024
Data Science Bootcamp atom camp	Jan 2024 – Apr 2024

Courses	
Machine Learning Engineer Data camp	Sep 2024
Google Soft Skills Program Google	Jul 2024
Generative AI for Everyone DeepLearning.AI & Coursera	Feb 2024
TensorFlow Developer Specialization DeepLearning.AI & Coursera	Sep 2023
Deep Learning Specialization DeepLearning.AI & Coursera	Sep 2023
Introduction to Computer Vision and Image Processing IBM & Coursera	Sep 2023
Machine Learning Specialization Stanford & Coursera	Apr 2023
Python Essential 1 Cisco Networking Academy	Apr 2023