



Muhammad Saad Haroon

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EDUCATION AND TRAINING

01/09/2021 – CURRENT Lahore, Pakistan

BACHELOR OF SCIENCE - COMPUTER SCIENCE Lahore University of Management Sciences (LUMS)

Relevant Coursework: Advanced Topics in ML, Speech & Language Processing with Generative AI, Computer Vision, Deep Learning, Machine Learning, Artificial Intelligence, Data Science, Data Structures, Advanced Programming, Software Engineering, Big Data Services and MLOps

Final grade CGPA : 3.673/4.00 , SCGPA: 3.751/4.00 | **Level in EQF** EQF level 6

05/05/2019 – 10/08/2021 Lahore, Pakistan

GCE ADVANCED LEVEL (A-LEVELS) Lahore Grammar School (LGS)

Final grade Result: 1A* , 1A , 3B's | **Level in EQF** EQF level 4

05/08/2016 – 05/05/2019 Lahore, Pakistan

GCE ORDINARY LEVEL (O-LEVELS) Lahore Grammar School (LGS)

Final grade Result: 4A*'s , 5A's | **Level in EQF** EQF level 3

WORK EXPERIENCE

 **GOSAAS INC.** – LAHORE, PAKISTAN

Business or Sector Professional, scientific and technical activities | **Department** Software Development

ASSOCIATE SOFTWARE ENGINEER – 21/07/2025 – CURRENT

- Contributed to the development of "GoSaaS Financial AI," an AI-powered framework that enables financial clients to automatically generate accurate and company-specific financial presentations from uploaded data and MD&A documents, eliminating the need for manual quarterly deck preparation.
- Build and deploy AI agents using Oracle's AI Agent Studio to automate workflows for diverse client needs. Leading integrations and have developed agents for multiple healthcare and logistics departments within Oracle's infrastructure.
- Design AI-powered analytics dashboards in Oracle Analytics Cloud using client-specific KPIs. Responsibilities include constructing semantic models, publishing business unit reports, and creating interactive visualizations to drive actionable business insights.

 **LUMS SCHOOL OF SCIENCE AND ENGINEERING (SBASSE)** – LAHORE, PAKISTAN

TEACHING ASSISTANT – 15/01/2024 – 15/05/2025

Head TA – CS 437: Deep Learning (Jan 2025 – May 2025)

- Led a team of TAs and managed all course logistics for 160+ students. Designed PyTorch-based assignments covering CNNs, GANs, ViTs, GNNs, LSTMs, and neural compression. Delivered tutorials, managed evaluations, and mentored students on 40+ real-world deep learning projects.

TA – CS 535: Machine Learning (Sep 2024 – Dec 2024)

- Designed hands-on assignments on classifiers, RNNs, and model evaluation. Graded quizzes and projects for 130+ students and conducted office hours for personalized debugging support.

TA – CS 331: Introduction to AI (Jan 2024 – May 2024)

- Facilitated interactive tutorials on decision trees, SVMs, and neural networks. Developed assignments and mentored 130+ students on implementing foundational AI algorithms.

 **COMPUTER AND SPEECH PROCESSING LAB (CSALT), LUMS - SUPERVISOR: DR. AGHA ALI RAZA** – LAHORE, PAKISTAN

UNDERGRADUATE RESEARCH ASSISTANT – 15/01/2023 – 15/05/2025

- Co-developed "**Kahaani**," a research-driven, multi-agent Generative AI framework for storytelling, integrating NLP, TTS, TTM, and TTV modalities to produce culturally relevant Urdu narratives. Focused on multimodal synthesis and child-safe content moderation. Preprint available on arXiv: <https://arxiv.org/abs/2409.11261>
- Developed **NLTK toolkits for Urdu**, enhancing tokenization and corpora development for low-resource languages, improving accessibility for NLP research in Urdu.

• Collaborated with the AI in Healthcare Initiative (AIHI) Lab on **speech-based detection** of anxiety and depression, analyzing verbal and paraverbal markers in patient audio. Led data cleaning and feature extraction pipelines to support the development of diagnostic models.

 **LUMS LEARNING INSTITUTE** – LAHORE, PAKISTAN
GENERATIVE AI STUDENT PARTNER – 04/05/2024 – 01/12/2025

Facilitated applied workshops on Retrieval-Augmented Generation (RAG) and chatbot development, guiding professionals from the fashion, technology, and healthcare sectors in leveraging generative AI as workplace assistants.

PROJECTS

05/09/2024 – 27/12/2024
Adaptive Entropy-Guided Universal Domain Adaptation (AEG-UDA)

- Developed a novel Universal Domain Adaptation framework using entropy-guided pseudo-labeling and dynamic thresholding. Achieved 88.9% accuracy across multiple adaptation scenarios, improving adaptability in image classification tasks.

Link https://github.com/SaadH-077/Adaptive-Entropy-Guided-Universal-Domain-Adaptation_AEG-UDA-

15/01/2024 – 13/05/2024
SmartCourseAdvisor-RAG

- Built an Intelligent AI-driven course recommendation system using LangChain, Mistral-7B-instruct, all-MiniLM-L6-v2, ChromaDB, Ollama Nomic-Embeddings, and Gradio to assist students in selecting courses based on academic history and interests.

Link <https://github.com/SaadH-077/SmartCourseAdvisor-RAG>

17/01/2024 – 13/05/2024
EmployNet – HR Management Portal

- Developed a secure MERN-based HR management portal for companies to streamline operations and reduce HR dependency, Automated payroll, attendance tracking, leave, and benefits management with enhanced security through two-factor authentication.

Link <https://github.com/SaadH-077/EmployNet>

05/09/2024 – 12/12/2024
3D Landmark Reconstruction from Multi-View Images

Reconstructed 3D landmarks using SIFT-based feature matching, triangulation, and mesh generation. Integrated results in FlutterCube for interactive visualization.

Link <https://github.com/SaadH-077/Vision3D-Landmark-Recon>

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

TECHNICAL SKILLS

Programming Languages: Python | C/C++ | SQL | HTML/CSS | JavaScript
Machine Learning & Deep Learning: PyTorch | TensorFlow | Keras | Scikit-learn | FastAI | OpenCV
Natural Language Processing (NLP): Language Models (LLMs) | Sentiment Analysis | Prompt Engineering
Multimodal AI: Retrieval-Augmented Generation (RAG) | LangChain | Mistral | Whisper | TTS | TTV
Computer Vision: Vision Transformers (ViTs) | GANs | CycleGANs | GNNs | Object Detection | Semantic Segmentation
Data Analysis & Visualization: NumPy | Pandas | Matplotlib | Seaborn | Tableau | Power BI
Development Tools & Frameworks: Gradio | Flask | Streamlit | React.js | MERN | MongoDB | CI/CD | n8n | Microsoft Azure

MANAGEMENT AND LEADERSHIP SKILLS

Convenor – PsiFi XV (May 2023 – May 2024)

- Spearheaded PsiFi XV, Pakistan's largest university-level science Olympiad. Hosted over 1,100 participants across 11 categories and led a 300+ member student team. Directed event logistics, outreach, and sponsor coordination to ensure flawless execution.

Event Head – LUMS SIGMA VI (May 2022 – May 2023)

- Led the successful execution of Pakistan's largest university mathematics Olympiad. Managed a core team of 50 volunteers and hosted 500+ participants from across the country. Oversaw event operations, registration, and on-ground support.

● **ACHIEVEMENTS**

HONOURS & AWARDS

- **Dean's Honour List** (2022–2025) – Awarded for consistent academic excellence and maintaining a CGPA of 3.6+ at LUMS.
- **Graduated with Distinction** – Recognized for outstanding academic performance in B.S. Computer Science.
- **Pakistan Representative** – Selected for the International Youth Physicists' Tournament (IYPT 2020), an international physics competition focused on advanced problem-solving and presentation.