# Muhammad Haris Ali

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## EDUCATION

- **Bahria University** — Islamabad, Pakistan
  *Bachelor of Science in Computer Science* — *2021 – 2025*

## TECHNICAL SKILLS

- **NLP:** LLM Fine-Tuning ,Text Classification, Hugging Face, spaCy, NLTK
- **Machine Learning:** TensorFlow, Keras, Scikit-learn
- **Programming:** Python , C++, SQL, PHP
- **Tools & Platforms:** Jupyter,Kaggle, Flask,AWS

## CERTIFICATIONS

- **Introduction to Data Science (CISCO)**: Issued in 2023.
- **AWS Academy Cloud Architecting**: Completed under Amazon Web Services (AWS).

## EXPERIENCE

- **Risetech** — Islamabad, Pakistan
  *Machine Learning Intern (NLP Focus)* — *July 2024 – Sept 2024*
  - **Medical OSCE Chatbot with Llama 2**
    * Applied tokenization, lemmatization, and custom cleaning of medical case studies to optimize model input
    * Feature Engineering: Created domain specific embeddings by augmenting standard vocabulary with clinical terminology
    * Fine-tuned Llama 2 on OSCE case studies, achieving 88% exam question accuracy

- **Techostudios** — On-Site
  *PHP Laravel Developer Intern* — *July 2023 – September 2023*
  - **Car Maintenance Website**: Developed a comprehensive web application for managing car maintenance tasks:
    * Implemented core features using **PHP Laravel** for task scheduling, service tracking, and user management.
    * Enhanced database efficiency by structuring schemas and writing optimized queries in MySQL.

## PROJECTS

- **VetAI Chatbot (Final Year Project)**:  Developed a multi-module AI chatbot for virtual veterinary services with frontend in Flutter:
  - **LLama:** Fine-tuned for accurate disease diagnosis and treatment suggestions.
  - **Whisper:** Enabled Urdu voice communication for non-English-speaking users.
  - **Gemini:** Managed conversational flow by gathering user history and generating medical reports.
- **Document Summarization Tool**:  Developed a web-based application that summarizes news articles from PDFs:
  - Used **PyMuPDF** for PDF text extraction and preprocessing
  - Implemented **TF-IDF scoring** with NLTK for key sentence extraction

## AWARDS

- **Project Gala Spring 2023**: Awarded **2nd position** for the Compiler Design project.