

ABDUL MATEEN

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SUMMARY

AI student with hands-on experience building real-world systems from LLM-powered chatbots and RAG pipelines to computer vision tools and automation workflows. Comfortable working across the full stack of AI development: data preprocessing, model integration, API design, and deployment. Eager to contribute to a collaborative team where I can build things that actually get used.

WORK EXPERIENCE

Lab Demonstrator | FAST NUCES Jan 2026 – May 2026

- Guided students through lab exercises, ensuring timely completion and understanding.
- Answered technical queries and provided hands-on debugging support during sessions.
- Evaluated lab submissions and provided constructive feedback to improve quality.

PROJECTS

SmartStay AI: Hotel Front Desk Assistant Chatbot

- Built a FastAPI-based AI assistant using an open-source LLM (Qwen) with RAG and CRM features.
- Integrated TTS/STT pipeline using Moonshine ASR and Kokoro for real-time voice interaction.
- Connected external tools: Calendar, Calculator, and OpenWeather API for real-time responses.

VoiceLens: Visual Reading Assistant

- Developed a mobile app combining text detection, OCR, and TTS to read menus, signs, and documents aloud.
- Designed for accessibility: assists users in interpreting printed text in real-world environments.

TranslateSub AI

- Built an AI-powered Chrome extension for real-time subtitle generation and live translation of multilingual video and streaming content, improving accessibility across languages.
- Designed a low-latency NLP streaming pipeline using Faster-Whisper, FastAPI, WebSockets, and voice activity detection with sliding-window audio segmentation for efficient real-time inference.

Multi-Scale Region-Phrase Alignment of Remote Sensing VLMs

- Extended DGTRS-CLIP with a Region-Phrase Alignment module using dual-encoder contrastive learning; achieved +3.20% relative mR and +9.01% I2T R@1 on the RSITMD benchmark.
- Trained on RET-2 dataset using PyTorch; benchmarked cross-modal retrieval with Recall@K (R@1/R@5/R@10) across both I2T and T2I directions.

CUDA Stream-Optimized Inference for EVEv2 Vision-Language Model

- Implemented CUDA multi-stream parallelism on EVEv2.0's dual-branch FFN, achieving 1.26x end-to-end speedup on the POPE Benchmark.
- Reduced large-scale evaluation runtime by 4.5 hours with zero retraining or additional GPU memory overhead.

Sentiment Analysis of Customer Reviews

- Scraped restaurant reviews from OpenTable; classified them positive/negative using LLM APIs with a Streamlit UI; added competitor analysis across restaurants.

ML Bot Training (Game AI)

- Trained an MLP on manually collected gameplay data from a Street Fighter-style game to make real-time predictive decisions.

Event Management System (NASCON)

- Full-stack web app with React Frontend, Node.js backend and MySQL database to manage university-wide event registrations with role based access and real time updates.

EDUCATION

FAST NUCES, Islamabad

BS Artificial Intelligence (6 semesters)

Aug 2023 – Present | CGPA: 3.23/4

Punjab College, Islamabad

FSc Pre-Engineering

2021 – 2023 | 978/1100

CERTIFICATIONS

Quantum Machine Learning, ML Model, Quantum Computing — IBM, Oct 2025

Data Analysis Using Python — IBM, Oct 2025 | Jupyter Notebook, Python, Data Analysis

Artificial Intelligence — University of Florida, Aug 2025

Artificial Intelligence Fundamentals — IBM, Aug 2025

SKILLS

Programming

- Python (primary)
- C++, C#, JavaScript
- Node.js, x86 Assembly
- SQL, MySQL

AI / ML

- Supervised Learning
- Embeddings & Evaluation
- Model Integration
- Inference Pipelines
- PyTorch, TensorFlow
- Scikit-learn

Backend & APIs

- FastAPI, Flask
- REST APIs
- Microservices basics

Data

- NumPy, Pandas
- CSV / JSON
- Data preprocessing
- ETL / Data pipelines

Tools & DevOps

- Git, GitHub
- Docker (basics)
- AWS/Azure/GCP (basics)
- CI/CD basics
- Streamlit

Soft Skills

- Problem-solving
- Communication
- Collaboration
- Attention to detail

ACHIEVEMENTS

Hafiz-e-Quran

Score: 92/100

Community Service

Visited a local orphanage, assisted children in daily routines, and conducted needs assessments through interviews and observations.