Muhammad Azeem Chaudhry

AI engineer

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CAREER OBJECTIVE

Highly motivated undergraduate in Artificial Intelligence at FAST NUCES (Class of 2026) with hands-on experience in machine learning, natural language processing, and data-driven application development. Eager to contribute to real-world AI/ML challenges through internships, bringing strong problem-solving skills, teamwork, and a solid foundation in programming and model optimisation.

PROFESSIONAL EXPERIENCE

AI/ML Developer Intern 08/2024 – 01/2025
Atom Camp Islamabad, Pakistan
- Contributed to the design and deployment of AI solutions, including LLM-based chatbots and learning management tools.
- Focused on enhancing user interactions, improving model responses, and supporting system scalability through Python, Transformers, and RESTful APIs.

AI intern 07/2024 – 08/2024
Atom Camp Islamabad, Pakistan
- Collaborated with a team to develop a chatbot for Atomcamp's website using Google API and open-source LLMs, enhancing user interaction and support.
- Contributed to the development of an automated attendance system, streamlining daily attendance data into a consolidated record.

Software Developer Intern 06/2021 – 07/2021
E-strats Islamabad, Pakistan
- Developed and maintained web applications using .NET and C#.
- Worked on user interfaces with HTML and CSS.
- Participated in code reviews to ensure code quality and adherence to standards.

EDUCATION

Bachelor's 2022 – 2026
FAST, BS Artificial Intelligence Islamabad, Pakistan

Main courses:
- Artificial Neural Networks
- Database Systems
- Parallel and Distributed Computing
- Natural Language Processing
- Digital Image Processing
- Artificial Intelligence

SKILLS

Python: LLMs (Hugging Face Transformers, SpeechT5, RoBERTa), PyTorch, NLTK, Flask, Streamlit, gRPC, Pandas, NumPy, Matplotlib, OpenCV, Scikit-Learn, Jupyter, Librosa, PyAudio, SentencePiece, Torchaudio

Machine Learning: Logistic Regression, Decision Trees, Random Forest, Gradient Descent, Support Vector Machines (SVM), Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Long Short-Term Memory (LSTM), Batch Normalization, Dropout, K-Means Clustering, K-Nearest Neighbors (KNN), PCA, Activation Functions, Backpropagation

NLP: Tokenisation, Text Preprocessing, Sentiment Analysis, Transformer Architectures, Attention Mechanisms, Sequence-to-Sequence Models, SpeechT5, RoBERTa, Cross-Task Attention, Word Embeddings (Word2Vec), Intent & Slot Modeling

Deployment and Tools: Docker, gRPC, Postman, Streamlit, Git, Linux CLI, SPARQL, Jupyter, Colab, Kaggle

Database Management: SQL, JSON, REST APIs

C/C++: Object-Oriented Programming, Data Structures, File I/O, STL, Multithreading

Java Script (Basic)

Soft Skills: Problem Solving and Analytical Thinking, Communication and Collaboration, Time Management and Multitasking, Adaptability in Fast-Paced Environments, Initiative and Self-Learning, Technical Documentation and Reporting

PROJECTS

Text2Story
Developed an AI-driven audio storytelling system that converts written narratives into expressive audio using SpeechT5 with contextual prosody, leveraging Librosa, Torchaudio, and Parler TTS for tone modulation and voice synthesis. Integrated data preprocessing and model orchestration with PyTorch and Transformers.

Traffic Sign Classification
Designed a rule-based image classifier using NumPy and traditional computer vision techniques to detect traffic signs based on color, shape, and geometric features, emphasizing computational efficiency over deep learning approaches.

CTRAN – Based NLP Enhancements
Reproduced and enhanced the CTRAN model by replacing BERT with RoBERTa and integrating cross-task attention mechanisms, resulting in improved performance on standard NLU benchmarks for intent classification and slot filling.