Urooj Ali

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Karachi, Pakistan

SUMMARY

Computer Science graduate specializing in Artificial Intelligence, with hands-on experience in developing end-to-end AI projects from data preprocessing to model deployment. Proficient in Python, machine learning frameworks, and data analysis, with a strong foundation in deep learning and modern AI applications. Eager to contribute to innovative, industry-focused AI solutions.

EDUCATION

Bachelor of Science in Computer Science (BSCS) Aug 2021 – Jun 2025
National University of Computer and Emerging Sciences (FAST) Karachi, Pakistan

- **CGPA:** 3.61 / 4.0
- **Dean's List:** Spring 2022, Spring 2023, Spring 2024, Fall 2024
- **Rector's List:** Spring 2025

EXPERIENCE

Student Teaching Assistant — Probability and Statistics Feb 2024 – Jun 2024
National University of Computer and Emerging Sciences (FAST) Karachi, Pakistan

- Assisted the course instructor by grading assignments and quizzes.
- Strengthened subject knowledge in probability and statistics while supporting academic tasks.

PROJECTS

- **EchoVisions: The Voice Behind the Image (Final Year Project)**
  Tools: Python, PyTorch, Librosa, OpenCV
  - Researched and developed a **multimodal AI system** that generates human-like speech conditioned on facial images.
  - Designed a pipeline with **face encoder**, **speech encoder**, and **TTS synthesizer**, aligning embeddings from images and audio in a shared latent space.
  - Worked on multimodal dataset collection, preprocessing, and model tuning for speech synthesis.
- **AI-Driven Job–Resume Matching System**
  Tools: Python, Hugging Face Transformers (DistilBERT), Pandas, NLTK, Streamlit
  - Built a recruitment prototype using **NLP and machine learning** to match resumes with job postings.
  - Developed a **DistilBERT-based NER model** to extract and tag candidate skills.
  - Designed an interactive Streamlit interface to rank and visualize candidate–job fit.
- **Music Genre Classification using CNN**
  Tools: Python, PyTorch, Matplotlib, Librosa
  - Trained a **CNN on Mel spectrograms** from the GTZAN dataset to classify music genres.
  - Achieved 82% accuracy after preprocessing raw audio into spectrograms.
- **Musify: Music Streaming Platform**
  Tools: C#, MySQL
  - Built a **C# desktop app** with user accounts, playlists, and audio playback (play, pause, skip, volume control).
  - Added an admin dashboard for managing the music library (upload, delete, update tracks).

SKILLS

- **Programming Languages:** Python, C++, C, SQL, React-Native
- **Tools & Frameworks:** PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Git/GitHub
- **Core Skills:** Deep Learning, Machine Learning, Natural Language Processing (NLP), Recommender Systems, Data Handling & Processing, Problem Solving, Analytical Thinking, Team Collaboration