

Muhammad Uzair

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OBJECTIVE

AI Engineer specializing in NLP, Deep Learning, and Generative AI.

EDUCATION

- **FAST - NUCES, Islamabad** — BS (Computer Science)
- **Punjab College, Rawalpindi** — F.Sc (Pre-Engineering, Merit Scholarship)
- **Sideeq Public School, Islamabad** — Matriculation (Science, 90%+ Aggregate)

SKILLS

- **Languages:** Python, C++, SQL, HTML/CSS
- **Tools & Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, Transformers, OpenCV, Librosa, Pandas, NumPy, Matplotlib, Git, AWS

WORK EXPERIENCE

- **STech.ai** — Project Intern
 - Assisted the team in a project for AI-powered Call QA Software.
- **Target Systems** — Digitization Team Intern
 - Supported development and maintenance of client-facing web and online portal solutions.

PROJECTS

- **Quran Echo – AI-Powered Quran Recitation Assistant**
 - **Tools:** Python, TensorFlow, MFCC, Flutter, TFLite, AWS (EC2)
 - Conducted R&D in Arabic phoneme recognition and speech processing for Quranic recitation analysis.
 - Built and integrated three core modules – Hifz/Recitation feedback, Makharij correction, and Lehja imitation, using both custom DL model developed from scratch and pre-trained models.
 - Deployed inference API on AWS EC2 for seamless mobile app integration, enabling on-device analysis, personalized feedback, and progress tracking.
- **Face Aging with Conditional GANs**
 - **Tools:** TensorFlow, GANs Flask, Docker
 - Designed and trained Conditional GANs with attention mechanisms for realistic age progression and regression.
 - Deployed the model as a Flask-based API containerized with Docker, providing web-accessible face aging services.
- **Urdu to English Translation**
 - **Tools:** Transformers, Seq2Seq, BLEU
 - Built transformer-based NLP model using Seq2Seq architecture for high quality Urdu-English translation.
 - Implemented attention, positional encoding, tokenization, and BLEU score evaluation..
- **University Timetable Scheduling Application**
 - **Tools:** Python
 - Built an AI-based scheduling system using Genetic Algorithms to generate conflict-free timetables
 - Designed chromosome encoding & a fitness function to minimize clashes while meeting constraints.