Muhammad Umar Farooq

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Summary

Aspiring Machine Learning Engineer and Junior Developer with hands-on experience in AI-driven pipelines for audio, speech, and video processing. Skilled in integrating models for transcription, translation, text-to-speech, and lip-syncing, and connecting them to modern frontends through REST APIs. Proficient in Python, Django, Next.js, Firebase, and media handling. Passionate about applying AI/ML, NLP, and automation to create innovative and practical solutions that enhance user experiences. Strong collaborator with a track record of delivering complete, end-to-end projects.

Employment History

ProByte, Karachi (Aug 2024 – Sep 2024)
Software Development Intern

- Contributed to backend development with a focus on building and optimizing APIs, skills directly applicable to deploying and integrating AI/ML models.
- Collaborated on full-stack web projects, gaining practical experience in system design, testing, and debugging — foundational for scalable AI solutions.
- Worked with Laravel and modern frameworks to handle data flows and authentication, reinforcing experience with data pipelines and secure application integration.

Skills

Languages: Python, C++, JavaScript, PHP, Java, SQL
Tools/Frameworks: Django, Flask, React.js, Next.js, React Native, Firebase, Laravel, Android Studio, Tailwind CSS
AI/ML: Deep Learning, Computer Vision, Natural Language Processing (NLP), Speech Processing, Wav2Lip, TTS (XTTS), PyTorch, TensorFlow
Automation: n8n, AI Agents, Workflow Automation, REST API Integration
Collaboration: Git, GitHub, Version Control, Agile, CI/CD

Education

Bahria University, Islamabad (Oct 2021 – May 2024)
B.Sc. in Computer Science (Artificial Intelligence) — CGPA: 3.48

Notable Projects

Speech-to-Speech Translation with Automated Lip-Synced Video (May 2025) — Translates English videos into a chosen language with lip sync using **Wav2Lip** for facial synchronization and **XTTS v2 (Coqui)** for speech synthesis. Link

Converse (Jul 2023) — Real-time chat app using React.js and Firebase. Link

Converse Mobile (Feb 2024) — Native version using React Native. Link

Notable Courses

Artificial Intelligence (Deep Learning and Computer Vision Focused) - **DiceCamp**
Sep 2025

Interests

Machine Learning, Web Development, Artificial Intelligence, Deep Learning