Arslan Khalid

Machine Learning Engineer

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Education

B.Sc. Electrical Engineering
University of Gujrat
CGPA: 3.12
Nov 2020 – Jul 2024

Relevant Courses:
- Advanced ML Algorithms by Stanford University
- Supervised Machine Learning by Stanford University
- Django Web Framework by Meta

Skills

Languages:	Python · C++ · SQL
Libraries/Frameworks:	TensorFlow · PyTorch · LangChain · Hugging Face · Streamlit · OpenCV · FastAPI
Machine Learning:	NLP · Computer Vision · Generative AI · RAG Models · Model Deployment
Version Control:	Git · GitHub · GitLab · CI/CD
Development:	Clean Code · API Development · Python for Automation · Containerization
Soft Skills:	Team Player · Problem Solving · Critical Thinking · Communication Skills

Experience

- **GulzarSoft (On-site)** — Gujrat, Pakistan
  Machine Learning Engineer — *Oct 2024 – Present*
  - **Car Recommendation System**: Built a collaborative filtering model, achieving a 30% increase in recommendation precision by leveraging user preferences and behavior.
- **Coders Launchpad (Remote)** — Dubai, UAE
  Machine Learning Intern — *Nov 2023 – Feb 2024*
  - **Voice-to-Voice Conversion**: Trained a voice-to-voice conversion model for Quran recitations using RVC, ensuring high-quality synthesis with accurate tone and clarity.
- **Intelligent Systems Lab (On-site)** — Gujrat, Pakistan
  Machine Learning Intern — *Sep 2023 – Oct 2023*
  - **Facial Recognition Model**: Developed a TensorFlow-based model to match ID images with live photos, achieving a significant increase in identification accuracy.

Projects

- **Stereo Vision Navigation with RL**: Developed an autonomous quadruped robot for path planning and navigation using RL. Integrated obstacle detection and avoidance with advanced machine learning algorithms.
- **Chat with PDF Project**: Built an interactive tool allowing users to query PDFs using RAG. Integrated NLP techniques with OpenAI's models to provide contextual responses.
- **Jarvis-AI Personal Assistant**: Designed a personal assistant integrating OpenAI API to handle conversational queries, automate task management via an API endpoint, and manage calendar updates for enhanced productivity.
- **PPE Detection**: Developed a deep learning model for real-time detection of the compliance of safety gear in industrial settings, improving the safety of the workplace.
- **Speech-to-Text Conversion Model**: Created a real-time speech recognition model using TensorFlow NLP techniques, achieving high precision in transcribing spoken language.
- **Sales Analysis Using LLMs**: Developed a tool leveraging LLMs to analyze sales data, extract insights, forecast trends, and provide a conversational interface for querying sales metrics.

Awards

- Achieved **top 4th** position in Devathon, a hackathon organized by Devsinc, Pakistan.
- Earned the **Master** title on Kaggle for excellence in data science and machine learning competitions.
- Received funding for my Final Year Project (FYP) through the **IGNITE NIGRI** program.