

Mohd Irfan

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SOFTWARE ENGINEER

Software engineer with hands-on experience in distributed systems, Linux environments, and scalable machine learning applications. Proficient in Python, C++, and system-level programming, with a focus on building end-to-end solutions in AI, cloud, and full-stack domains. Driven by a passion for solving complex problems and creating impactful, user-centric technologies.

EDUCATION

- **Bachelor of Technology in Artificial Intelligence and Data Science, JNTUH.** 2022-26
Vardhaman College of Engineering, Shamshabad CGPA: 8.12
- **Intermediate in MPC, Telangana Board of Intermediate Education (TGBIE).** 2020-22
Sri Chaitanya Junior College, Hyderabad Percentage: 94.9
- **Tenth Class, Telangana Board of Secondary Education (BSET).** 2020
Narayana High School, Hyderabad CGPA : 10.00

PROJECTS

- **Bone Fracture Detection Using InceptionV3** 🔗 Oct 2024 – Dec 2024
An ML project for detecting bone fractures from X-ray images using Convolutional Neural Networks.
 - The project focuses on improving radiological diagnostic efficiency by leveraging transfer learning techniques
 - Trained a CNN (neural network) model for X-ray classification.
 - Published as a research paper in E3S Web of Conferences (Vol. 619, ICSGET 2025).
 - Technology Used: Python, Convolutional Neural Networks (CNNs).
- **Zidio–Real-Time Workplace Emotion Dashboard** 🔗 Mar 2025 – May 2025
Developed a real-time AI dashboard for detecting employee emotions using facial and voice inputs.
 - Designed a multimodal emotion pipeline using DeepFace and Whisper for facial and speech analysis.
 - Engineered feature fusion logic to generate unified "session moods" such as engaged, stressed, or burned out.
 - Built a FastAPI-based backend to log emotion events and support RESTful access by front-end apps.
 - Technologies Used: Python, DeepFace, Hugging Face, Whisper, OpenCV, FastAPI, Streamlit, SQLite, Git
- **InsightPDF: RAG-Based AI Chatbot for Document Q&A** 🔗 Jul 2025
Created an AI chatbot that answers questions from PDFs using RAG architecture with open-source LLMs.
 - Designed a modular RAG pipeline with semantic chunking, FAISS vector search, and Flan-T5 response generation.
 - Integrated PDF parsing, document retrieval, and generation into a seamless LangChain workflow.
 - Implemented CI/CD using GitHub Actions and deployed on Streamlit Cloud for instant access.
 - Technologies Used: Python, LangChain, HuggingFace, FAISS, Streamlit, PyMuPDF, Git

PROFESSIONAL EXPERIENCE & INTERNSHIPS

- **Data Science & Analytics Intern** Mar 2025 – Apr 2025
Zidio Development Online
 - Analyze and process large datasets to extract meaningful insights.
 - Develop and optimize machine learning models for data-driven solutions.
 - Create visualizations and dashboards to present key findings.
 - Collaborate with teams to support decision-making using analytics.
- **Power BI Intern** Mar 2025 - May 2025
CODTECH IT SOLUTIONS PVT. LTD, Hyderabad Online
 - Developed interactive data visualizations and dashboards using Power BI.
 - Analyzed and optimized business intelligence reports for better insights.

TECHNICAL SKILLS

Languages & Frameworks: Python, PyTorch, TensorFlow, HuggingFace, Scikit-learn
GenAI & NLP: Transformers, LangChain, RAG Pipelines, OpenAI API, Whisper, DeepFace
ML & Deep Learning Frameworks: Scikit-learn, Matplotlib, XGBoost, TensorFlow, Keras, PyTorch
Programming Concepts: Data Structures & Algorithms, Object-Oriented Programming
Cloud & DevOps: Basic AWS, Docker, Firebase
Tools & Platforms: Git, GitHub, VS Code, Jupyter, MySQL, AWS (basic)

SOFT SKILLS

Problem-Solving Skills, Presentation skills, Adaptability, Communication Skills, Effective Team member.

CERTIFICATIONS

- **Paper Presentation Certificate for Sentiment Analysis of Movie Reviews** 🔗 Feb 2025
- **Introduction to DevOps – IBM** 🔗 May 2024
- **Programming in Java – NPTEL by IIT Kharagpur** 🔗 Jan 2025 – Apr 2025