

Akram Shaik

ML Engineer

I'm Akram Shaik, an aspiring ML Engineer passionate about building intelligent systems that solve real-world problems. From developing AI-driven patient monitors to leading research on pineapple disease detection using attention mechanisms, I blend deep learning, computer vision, and full-stack development to create impactful solutions. Whether it's winning coding contests or optimizing models beyond the state-of-the-art, I thrive on challenges and innovation.

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EDUCATION

B. Tech

GMR Institute of Technology

10/2021 - 04/2025

Rajam, India

Courses

- Artificial Intelligence and Machine Learning

SKILLS

Python

C

Java

SQL

HTML/CSS/JS

Machine Learning

Deep Learning

Computer Vision

Python Backend Development

Django

Flask

FastAPI

Git

PERSONAL PROJECTS

ACM Codespace

- Built a full-stack platform with Python Django for coding competitions, incorporating real-time coding, automated judging, and leaderboards.
- Increased user engagement by 30% with a responsive design and secure backend, handling over 100 concurrent users.

Patient Monitoring System

- Created an AI-driven monitoring system that performs continuous video analysis to detect when a patient leaves the bed, triggering real-time alerts for immediate medical attention

Hand Gesture Controlled Robot

- Designed an OpenCV-based algorithm to control a robot through hand gestures, implementing real-time detection to interpret and execute commands, achieving robotic movement latency under 500 milliseconds.

Chess Game

- Developed a two-player offline chess game with an intuitive graphical user interface using Python Tkinter, without relying on external chess libraries.

WORK EXPERIENCE

Junior Research Fellow

GMRIT

05/2024 - 04/2025

Rajam, India

Task/Achievements

- Led a research initiative sanctioned by iHub IIT Roorkee, applying Deep Learning algorithms and image processing techniques to classify pineapple diseases, achieving a 40% increase in predictive accuracy for disease identification.
- Used scrapping techniques to create the dataset for the pineapple disease classification.
- Created a New Robust model for the disease classification task using Attention Mechanisms and Feature fusion techniques. This model performs better than all other state-of-the-art models for classification tasks.

ACHIEVEMENTS

Achieved CodeChef 3-Star Coder status with a highest rating of 1641, ranking 14,854 globally out of over 1 million participants.

Solved 140+ problems on LeetCode.

Ranked 1353 in TCS Codevita Season 11.

Ranked 1867 in TCS Codevita Season 12.

Ranked among Top 50 in TCS HackQuest Season 9.

Secured first position in the Array Challenge coding contest, competing against 50+ participants.

Ranked second place in the Strange Coding contest in the first year, with more than 200 competitors.

Won a 10-hour Datathon as part of a team of 3, solving 20 complex data problems and achieving the highest accuracy in the competition.

Recognized as the winner of the Poster Designing contest at college, selected from 80+ entries.

CERTIFICATES

Python for Data Science, AI & Development – IBM (Coursera)

Prompt Engineering for ChatGPT – Vanderbilt University (Coursera)

Intermediate Python - Sololearn

Python Data Structures – Sololearn

SQL Basic – HackerRank