

Akram Shaik

Software Engineer

Education

GMR Institute of Technology, Rajam – *B. Tech in Artificial Intelligence and Machine Learning*

November 2021 – April 2025

Sri Chaitanya Boys Junior College, Gollapudi – *Intermediate in MPC*

June 2019 – April 2021

Experience

iHub IITR Project GMRIT, Rajam – *Junior Research Fellow*

May 2024 – Present

- Led a research initiative sanctioned by IIT Roorkee, applying machine learning algorithms and image processing techniques to classify pineapple diseases, achieving a 40% increase in predictive accuracy for disease identification.
- Analyzed over 1,000 images using advanced algorithms, aiming for a 20% improvement in agricultural productivity.

Projects

ACM Codespace – Full Stack Web Application

- 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 500 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.

Automation of Offline Exam Invigilation

- Created a computer vision-based system for automated exam invigilation, using posture detection to identify suspicious activities, reducing human supervision by 70%.

Chess Game

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

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.

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CodeChef: akram2222

Leetcode: akram22

CodeForces: akram22

Skills

Programming Languages: Python, C, Java, HTML, CSS, JavaScript, SQL

Technologies: Django, Flask, Machine Learning, Deep Learning, Computer Vision, NLP

Concepts: Data Structures and Algorithms, Database Management Systems, Object Oriented Programming, Backend Development

Achievements

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

Solved 136 problems on LeetCode.

Ranked 1353 in TCS Codevita Season 11.

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.

Certifications

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*

Positions and Responsibility

Chairperson, ACM GMRIT Professional Student Body – Led initiatives and organized 10+ technical events to boost student engagement.

AI Lead, GDSC GMRIT.