

# Akram Shaik

Entry-level software engineer with a solid foundation in Python, machine learning, and full-stack development. Skilled in designing efficient applications to solve practical challenges and enhance user experiences. Gained hands-on experience through collaborative projects, with a commitment to adopting new technologies to deliver impactful results.

## 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:** codechef.com/users/akram2222

**Leetcode:** leetcode.com/u/Akram22

**CodeForces:** codeforces.com/profile/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 14854 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.