

Akash Maurya

*B.Tech (Artificial Intelligence) —
Undergraduate*

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Languages: English, Hindi

Summary

Driven and curious B.Tech (AI) undergraduate with hands-on experience in machine learning projects, robotics club leadership, and web app development. Strong foundation in Python, ML libraries, and object-oriented programming. Looking for internships or research opportunities to apply and sharpen practical AI and robotics skills.

Education

- Aug 2024–Present **B.Tech in Artificial Intelligence**, Bennett University, CGPA: 8.35/10 (1st year completed)
- Apr 2022–Mar 2023 **Class XII (PCM)**, UP Board, Result: 88%
- Jun 2023–Jul 2024 **B.Sc in Mathematics (Discontinued)**, Avadh University, CGPA: 7.55/10 (1st year)

Technical Skills

- Languages Python, C/C++, SQL
- ML & Data Machine Learning, K-Means, Regression, Classification
- Deep Learning CNN (basics), Neural Networks (fundamentals)
- Libraries / Tools NumPy, Pandas, scikit-learn, OpenCV, Matplotlib
- Robotics & IoT Arduino, ESP32, Sensors (IR, Ultrasonic, Camera), Motor Drivers, Bluetooth (HC-05)
- Other Object-Oriented Programming, Data Structures, Algorithms,

Selected Projects

- Jan 2025 **KrishiShram — Farmer Labour Management Web App**
- Designed platform to record, track, and manage daily labour logs for farmers, automating wage calculation and attendance.
 - **Tech:** HTML/CSS, JavaScript (frontend), Flask/Python (backend), SQLite.
- Aug 2025–Present **Snake Iris Biometric System (Research Project)**, CCMB Hyderabad — Karthikeyan Vasudevan, Chief Scientist
- Working on the design of a **hybrid biometric authentication framework** combining snake-skin texture analysis with iris recognition for improved identification reliability.
 - Studying and experimenting with **feature extraction, texture segmentation, and iris encoding techniques** suitable for biological texture patterns.
 - Investigating methods to improve robustness under **variable illumination and noise conditions** through adaptive preprocessing strategies.
 - Collecting and preparing multi-modal datasets for future model training and evaluation.

Sep 2025 **ImageLab — K-Means Image Compressor**

- Implemented image color compression using K-Means clustering to reduce unique colors and storage footprint.
- **Tech:** Python, OpenCV, scikit-learn. Achieved 40–60% space reduction with minimal perceptual quality loss.

Sep 2025–Present **RC Car → Line-Following Vehicle (Club Project)**

- Built an RC car and integrated sensors (IR/line sensors) and PID-like control logic to convert it to an autonomous line follower.
- Implemented **ADAS-inspired concepts** including basic sensor fusion, lane detection from line data, obstacle avoidance logic, and safety-oriented control behavior; validated through small-scale prototype testing.
- **Tech:** Arduino UNO, ESP32, IR sensors, camera module, OpenCV, PID/variant control algorithms, C/C++, Bluetooth interface, L298N motor driver.

Jan 2026–Present **Social Welfare Project (Collaboration with GNIDA)**

- Working with the **Greater Noida Industrial Development Authority (GNIDA)** on a social welfare initiative aimed at improving community awareness and data-driven planning.
- Contributing to project design and technical support, including data collection, analysis, and prototype solution development.

Leadership & Experience

Aug 2025–Present **Secretary & Co-Founder, RoboGenesis Club, Bennett University**

- Co-founded a campus club focused on robotics, automation and AI; organized workshops, hackathons and onboarding sessions.
- Coordinated teams, maintained documentation, and mentored new members on hardware and projects.

Certifications

Programming in Python

Google AI Essentials Specialization

AI For Everyone (Coursera)

Prompt Engineering

Awards & Achievements

Scholarship INSPIRE Scholarship (DST) — Awarded during B.Sc. Mathematics first year for academic excellence.

Academic Silver Medal for securing the top 10 position in Class XII (UP Board).