

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
	<ul style="list-style-type: none">○ 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
	<ul style="list-style-type: none">○ 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).