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
Libraries / Tools	NumPy, Pandas, scikit-learn, OpenCV, Matplotlib, Git, VS Code
Other	Object Oriented Programming, Data Structures, Algorithms

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Selected Projects

Sep 2024 — **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.

Oct 2024 — **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 2024–Present — **Snake Iris Biometric System (Research Project)**
- Developing a hybrid biometric authentication model that combines snake-skin texture pattern analysis with iris recognition to enhance identification accuracy.
- Implementing feature extraction techniques, texture segmentation, and iris encoding for improved robustness under varying lighting conditions.

Sep 2024–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.
	○ **Tech:** Arduino UNO, HC-05, L298N, Esp32, C/C++, Bluetooth Interface, Motor Driver Control and other.

Leadership & Experience

Aug 2024–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 (short course)

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).