

Pranav Sahu

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EDUCATION

Amity University Rajasthan

Bachelor of Technology, Computer Science and Engineering
Cumulative GPA: 8.86/10.0

Aug 2024 – Present
Jaipur, Rajasthan

Krishna Public School, Dunda

Senior Secondary (XII), CBSE
Percentage: 89%

Apr 2021 – Mar 2023
Raipur, Chhattisgarh

TECHNICAL SKILLS

Programming Languages: Python, C++, C

AI & Machine Learning: Stable Diffusion, scikit-learn

Web Development: Flask, Django, HTML, CSS

IoT & Embedded Systems: Arduino, ESP32, Raspberry Pi

Developer Tools: Linux, Git, GitHub, VS Code

Databases: MySQL, MongoDB, SQLite

Cloud Platforms: Google Cloud Platform, Oracle Cloud Infrastructure

PROJECTS

Local Stable Diffusion Inference Engine [🔗]

Generative AI • Python • CUDA • Latent Diffusion Models • Web Development

- Built local text-to-image generation system using Stable Diffusion with CUDA optimization, achieving 3-6 second inference on consumer GPU
- Developed web interface for model interaction with customizable sampling parameters, CFG scale, and checkpoint selection
- Studied Latent Diffusion Model architecture and diffusion mathematics to optimize generation quality and reduce inference latency

Oct 2025 – Nov 2025

GreenMind Pot - AI Powered Smart Planter

Raspberry Pi • Python • Local LLM • Edge AI

- Built smart plant care system using Raspberry Pi and local LLM to analyze sensor data and deliver AI-powered health recommendations
- Integrated soil moisture and temperature sensors with Python scripts for real-time environmental monitoring and context-aware insights
- Achieved offline Edge AI functionality with sub-3-second response time, eliminating cloud dependency

Aug 2025 – Oct 2025

POSITIONS OF RESPONSIBILITY

Student Coordinator

RAIoT Labs (Robotics, Automation and IoT), Amity University Rajasthan

- Promoted from Junior Developer to Senior Developer, and subsequently to Student Coordinator within 14 months, leading the university's premier IoT and Robotics lab with 10+ active members and mentoring 20+ junior developers
- Organized and participated in national-level technical competitions at IIT Jodhpur, IIT Roorkee, MNIT Jaipur, and LNMIIT Jaipur, guiding teams in RC plane design, line follower robots, and automation projects
- Developed Smart Attendance System and contributed to lab projects including GreenMind Pot while supervising junior teams and managing resources

Oct 2025 – Present
Jaipur, Rajasthan

ACHIEVEMENTS & CERTIFICATES

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate [↗](#)

Achieved professional certification in AI fundamentals and cloud infrastructure

1st Position, RAIoT Project Arena 2025

Secured top rank showcasing Local Stable Diffusion Inference Engine

Pan IIT Rising 2025 Representative

Selected to showcase GreenMind Pot project at RIC Rajasthan representing Amity University

Google Cloud Hack2Skills Gen AI Exchange Hackathon [↗](#)

Participated in Google Cloud's flagship Generative AI hackathon

National Hackathon Participant

Competed in Adobe India Hackathon 2025 [↗](#), IIT Jodhpur Techfest [↗](#) and IIT Roorkee Techfest

HackerRank Python 5-Star [↗](#)

Achieved top-tier proficiency rating in Python through competitive programming challenges

Google Cloud Skills Boost [↗](#)

Completed Arcade Milestone 1 certification demonstrating hands-on cloud computing expertise