NISHANT SREEKUMAR
AI & Robotics Student • Artificial Intelligence • Machine Learning • IoT

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Professional Summary

Highly motivated **AI & Robotics** student specializing in **artificial intelligence, machine learning, IoT and real-time GPU-accelerated systems**. Experienced in backend development, intelligent systems, and data-driven solutions. Passionate about leveraging emerging technologies in **autonomous systems, robotics, smart monitoring, and IoT-driven applications**.

Education

- **B.Tech in AI & Robotics** — Dayananda Sagar University *Aug 2023 – Present*
- **BS in Data Science** — IIT Madras *(Online)* *May 2024 – Present*

Technical Skills

- **Machine Learning & AI**: CNNs, Transfer Learning
- **Deep Learning**: Convolutional Neural Networks, Transfer Learning
- **Computer Vision**: Object Detection, Image Classification, Jetson Nano Optimization
- **IoT & Embedded Systems**: MATLAB Simulations, ThingSpeak API, Real-Time Data Processing
- **Backend Development**: Django REST Framework, Flask, REST APIs
- **Programming & Data Structures**: Python, C, Linked Lists, Stacks, Queues
- **Cybersecurity & Hackathons**: CTF Challenges, Bug Bounties, Web Exploitation, Cryptography
- **Tools & Platforms**: Git, Postman, MySQL

Research & Projects

1. Real-Time Image Recognition on Jetson Nano (GPU Acceleration)

- Implemented real-time object detection using jetson-inference with GoogleNet, ResNet-18, and SSD-MobileNet-v2.

- Benchmarked **GPU vs CPU performance**, optimizing inference speed for embedded systems.

2. Mango Leaf Disease Detection (Research)

- Trained multiple **CNN architectures** achieving **95% accuracy**.
- Demonstrated AI-based image classification techniques in agriculture using **CNNs** and **transfer learning** for early mango leaf disease detection.

3. IoT-Based Automatic Soil Moisture Detection System (Simulation)

- Simulated an **IoT- enabled soil moisture monitoring system** in **MATLAB**, focusing on **real-time detection and threshold-based alerting**.

Cybersecurity & Hackathon Achievements

NASA Space Apps Hackathon — People's Choice Award *(2024)*

- Built a **platform to empower women in climate action**, integrating educational resources, real-world stories, NGO networks, and a marketplace for women artisans.
- Recognized as **People's Choice Award Winner**, showcasing **innovation and social impact**.

NCSRC Hackathon *(July 2025)*

- Advanced to **state-level semi-finals** in one of India's most competitive **cybersecurity hackathons**.
- Reported **6 security vulnerabilities** during the **Bug Bounty round**, with **3 acknowledged for real-world impact**.

Experience

Bluestock Fintech — Backend & ML Intern *(Remote)* *Jun 2025 – Jul 2025*

- Built and deployed **20+ REST API endpoints** using **Django REST Framework** for IPO web.
- Developed an **ML-powered data processing pipeline** to automate stock market fundamental analysis and deliver real-time insights.
- Built **REST APIs** for IPO management and authored comprehensive **deployment documentation**.
