

Nandu Rajesh

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Professional Summary

Passionate AI/ML Engineer with expertise in computer vision, robotics, and full-stack development. Currently pursuing B.Tech in Artificial Intelligence with a strong academic record (CGPA: 9.71). Experienced in developing autonomous systems, implementing deep learning models, and leading media production teams. Combines technical proficiency in AI frameworks with hands-on hardware experience using embedded systems and microcontrollers.

Education

B.Tech in Artificial Intelligence, Muthoot Institute of Technology and Science Aug 2022 – May 2026

- Current CGPA: 9.71/10.0 | Specialization: Computer Vision, Minor in Electronics

Higher Secondary (Science), SMCS Thiruvaniyoor 2022

Experience

Research & Development Intern, Enproducts, Kochi Jan 2024 – Present

- Developed autonomous AGV cart, AI jewelry measurement system, and Big Fuse detector for industrial automation
- Implemented computer vision solutions using YOLO, ROS2, and embedded systems

Full Stack Web Development Trainee, 100xDevs Cohort by Harkirat Singh June 2025 – Present

- Gained hands-on experience in full stack web development using React.js, Node.js, Express, and MongoDB
- Built scalable MERN stack applications, including authentication, routing, and API integrations

Full Stack Development Intern, IBM SkillsBuild

- Completed comprehensive training in web development and agile methodologies

Media Director, TEDxMITS | **Outreach Lead**, TinkerHub | **Media Lead**, MuLearn 2023 – Present

- Led multimedia production teams
- Managed community outreach programs and technical content creation

Key Projects

Autonomous Industrial AGV Cart 2025

- Self-navigating cart for industrial automation and parts transportation
- **Tech Stack:** ROS2, YOLO, Jetson Orin Nano, Computer Vision

AI Jewelry Stock Measurement System 2025

- Automated inventory system with high accuracy in stock counting
- **Tech Stack:** YOLOv8, Paddle OCR, Python, OpenCV

Big Fuse Detector for EV Units 2024

- Automated fuse detection system for power distribution box quality control
- **Tech Stack:** YOLOv8, Computer Vision, Industrial Automation

SnapFlow - AI Event Photography Management

2024

- AI-powered photo sorting with face recognition and privacy controls
- **Tech Stack:** MERN,Django, OpenCV, DeepFace, ArcFace, MySQL, Celery

Technical Skills

Programming Languages: Python, C, Java, JavaScript, HTML, CSS, SQL

AI/ML Frameworks: PyTorch, TensorFlow, Keras, OpenCV, scikit-learn, Pandas, NumPy

Computer Vision: YOLO (v8), OpenCV, DeepFace, ArcFace, Image Processing, Object Detection

Robotics & Hardware: ROS2, Jetson Orin Nano, Raspberry Pi, ESP32, Arduino

Development Tools: Git, Docker, Django, MySQL, Linux, Jupyter Notebook

Certifications

- **Elevate** - 100XDEV
- **Python for Data Science** - NPTEL
- **Computer Vision and Image Processing** - NPTEL
- **Digital System Design** - NPTEL
- **Keras and TensorFlow for Deep Learning** - Online Course
- **Prompt Engineering** - Certification Program
- **IBM Full Stack Development** - IBM SkillsBuild
- **B1 Level Lingua Skill Exam** - Language Proficiency

Leadership & Activities

TinkerHub Outreach Lead & MuLearn Media Lead

2023 – Present

- Led technical community outreach programs and managed social media content strategy

Next Studios, Founder

2022 – Present

- Founded freelance photography and videography venture specializing in event management
- Managed end-to-end event production for corporate clients and academic institutions