

# Aanand Pandit

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## PROFESSIONAL SUMMARY

A passionate Computer Science graduate specializing in **AI&ML** with hands-on experience in **software development, AI/ML algorithms and frameworks, embedded systems, real-time simulations, cloud integration, project management, data analyst, troubleshooting technical issues, hardware troubleshooting, and optimizing performance**. Adaptable, curious, and committed to contributing to impactful projects and dynamic teams.

## EDUCATION

Field of Study	GPA	Institute	Place	Duration
B.Tech	CSE (AI&ML)	8.3/10	Sree Vidyanikethan Engineering College	Tirupati, India
Intermediate	Computer Science	2.79/4	Koshi Saint James Residential Secondary School	Itahari 8, Sunsari, Nepal

## TECHNICAL SKILLS

Programming Language	C, C++, Python
Web Tech	HTML, CSS, JavaScript, Bootstrap
Database	MySQL, PostgreSQL
Frameworks & Libraries	TensorFlow, PyTorch, Numpy, Pandas, Scikit-learn, Matplotlib, OpenCV, YOLOv8, Hugging Face, Transformers, LangChain, Flask, PyQt5
AI/ML	AIML Algorithms, NLP, LLMs, Generative AI, GANs, RAGs, VAEs
Cloud & DevOps	AWS, Google Cloud, Infinyon Cloud
Embedded Systems & IoT	Arduino, Raspberry Pi, NVIDIA Jetson Nano, ESP32, ESP8266, IoT sensors/actuators/devices
Tools & Platforms	Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Kaggle, MS- Word, Excel, PowerPoint, PowerBI
Operating Systems	Windows, Linux, Raspberry Pi OS

## PROJECT EXPERIENCE

### Vision-Based UAV for Search and Rescue Operations | Oct 2024 – Apr 2025 | [Link](#)

- Engineered a drone system using computer vision and AI for autonomous monitoring in disaster zones.
- Implemented human detection and tracking models with YOLOv8
- Achieved an 80% increase in search efficiency and reduced manual intervention by enabling real-time victim detection.

### IoT-Based Plant Monitoring System | Feb 2023 – Jul 2023 | [Link](#)

- Designed and built a smart plant monitoring device using ESP32, soil moisture, temperature, and humidity sensors.
- Developed an accompanying Android app for live data monitoring and automated watering alerts.
- Successfully reduced manual caring and monitoring efforts by 80% across multiple plant species.

## WORK EXPERIENCE

### AI Intern | CodSoft (Virtual) | Oct 2023 – Nov 2023

- Developed and delivered 3 functional AI prototypes, including a face recognition attendance system and an NLP chatbot, achieving up to 92% accuracy.
- Gained proficiency in rapid prototyping and collaborating effectively within a virtual team environment.

## HACKATHONS

### Hackhazards'25 | The Namespace Community | Apr 2025 | [Link](#)

#### Project: GreenHouse Agri-Farming Monitoring System | Award: 2nd Prize

- Created a PyQt5-based dashboard with InfinyOn Fluvio Cloud integration for real-time sensor simulation and control of greenhouse sensors and devices helps increase crops productivity and less human touch.

## CERTIFICATIONS & ACHIEVEMENTS

- Oracle AI Vector Search Certified Professional ([Oracle University](#))
- Google Cybersecurity Professional Certificate ([Coursera](#))
- Cloud Computing and DevOps ([ExcelR E-Learning](#))
- Machine Learning ([Scholiverse Educare](#))
- Diploma in Computer Application ([N.S. College of Software & Hardware Engineering](#))
- Prototyping of Audobotics ([Mohan Babu University](#))
- National Level Competitions on Robotics ([Technex'24, IITBHU](#))
- Purbanchal Robotics Workshop ([Robotics Association of Nepal](#))

## LANGUAGES

- Nepali, English, Hindi, Maithili:** Advanced
- Telugu:** Intermediate