

# Aanand Pandit

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## EDUCATION

### Sree Vidyanikethan Engineering College

Tirupati, India

*Bachelor of Technology in Computer Science & Engineering, Artificial Intelligence & Machine Learning* 2021 - 2025

### Koshi Saint James Residential Secondary School

Itahari, Nepal

*Intermediate, +2 in Computer Science & Mathematics*

2019 - 2021

## PROJECTS

### Vision-Based Drone for Search & Rescue | *PyQt5, YOLOv8, OpenCV, Raspberry Pi* Oct 2024 – Apr 2025

- Major B.Tech project enhancing search operations in disaster zones using an AI-powered drone.
- Built on-board real-time inference pipeline on Arduino/ESP32CAM/Raspberry Pi with 92% detection accuracy.
- Developed PyQt5 dashboard with live video, detection overlay, and telemetry.

### NurseAI: Digital Health Companion | *Flask, PostgreSQL, TailwindCSS, JavaScript, GenAI* Nov 2025

*Hackathon: Replit X Polaris School of Technology*

- Emotionally adaptive health app featuring a 10-emotion AI nurse with real-time behavior responses.
- Built analytics dashboard with 7-day insights, co-care score, streaks, and live routine monitoring.
- Integrated reminders, browser notifications, medical history manager, and AI first-aid support with Perplexity AI.

### GreenHouse: Agri-Farming Monitoring System | *PyQt5, Fluvio, Flask, Sensor Simulation* Apr 2025

*Hackathon: HACKHAZARDS '25*

2nd prize

- Built real-time greenhouse dashboard with live sensor charts for temperature, humidity, and soil moisture.
- Implemented Fluvio-based data streaming pipeline with simulated IoT sensors and device controls.
- Designed responsive web UI using Flask and Chart.js for monitoring and manual actuator control.

### HackerOS: High-Performance Productivity Suite | *C++, PyQt5, GenAI* Mar 2024 – Jul 2024

- Personal project that boosted task, habit, and goal management efficiency in one unified interface.
- Achieved fast real-time analytics and smooth UI performance.
- Enabled intelligent in-app automation and rapid research browser through seamless integration of the Perplexity AI assistant.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, SQL

**Frameworks:** PyTorch, TensorFlow, Hugging Face Transformers, LangChain, Flask, PyQt, Generative AI Frameworks

**Developer Tools:** Git, Docker, MS-Word, Excel, PowerBI

**Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, OpenCV, YOLOv8, NLTK

**Embedded & IoT:** Arduino, ESP32/ESP8266, Raspberry Pi, NVIDIA Jetson Nano, Sensor Integration

**Other Skills:** Feature Engineering, Model Training & Optimization, Real-time Inference Systems, RAG, LLMs, VAEs

## CERTIFICATIONS & ACHIEVEMENTS

Oracle AI Vector Search Certified Professional

Oracle University

Google Cybersecurity Professional Certificate

Coursera

Machine Learning

Internshala

Diploma in Computer Application

N.S. College of Software & Hardware Engineering

Workshop on Electronics & Robotics

Robotics Association of Nepal

Workshop on IoT & Robotics

Mohan Babu University

## LANGUAGE KNOWN

English, Nepali, Hindi: Advance

Telugu: Intermediate