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
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