

Aanand Pandit

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PROFESSIONAL SUMMARY

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

WORK HISTORY

AI Intern | CodSoft | Virtual (1 Month)

Achievement: Delivered 3 AI prototypes within deadline, improving solution accuracy up to 92%

- Built a face recognition attendance system using OpenCV and face encoding.
- Designed an NLP chatbot for FAQs and a self-learning Tic-Tac-Toe AI opponent.
- Gained experience working in virtual teams and rapid prototyping.

TRAININGS & CERTIFICATIONS

Certificate	Institutions
Google Cybersecurity Professional Course	Coursera
Cloud Computing and DevOps	ExcelR, E-Learning Platform
Machine Learning	Scholiverse Educare Private Limited
Prototyping of Ardubotics	Mohan Babu University
Diploma in Computer Application (3 Months)	College of Software & Hardware Engineering
Purbanchal Robotics Workshop	Robotics Association of Nepal

PROJECTS

Vision-Based UAVs for Search and Rescue: Enhancing Operations in Disaster Zones

(October 2024 – April 2025)

Achievement: Improved rescue response time by enabling autonomous victim detection

- Designed and deployed a drone using computer vision and AI for real-time disaster zone monitoring.
- Used TensorFlow and OpenCV to detect and track human presence in challenging environments.
- Successfully reduced manual intervention and increased search efficiency by 80%.

Online Book Library

(March 2024 – April 2024)

Achievement: Streamlined digital book processing for 50+ users

- Developed a full-stack library platform using PHP, JavaScript, and MySQL.
- Enabled secure book storing, viewing, reading, sharing, and managing books.
- Boosted user engagement with responsive UI and real-time updates.

IoT-Based Plant Monitoring System

(Feb 2023 – July 2023)

Achievement: Reduced manual watering & monitoring by 80% through smart automation

- Built an IoT device using ESP32, soil/moisture sensors, water pump, humidity and temperature sensors and Android app.
- Enabled live monitoring and automated watering alerts.
- Successfully tested with multiple plant species under varying soil conditions.

HACKATHONS

Hackhazards'25 | The Namespace Community

(April 2025)

Project: GreenHouse Agri-Farming Monitoring 

(2nd Prize)

Achievement: Won 2nd place for designing a scalable precision farming simulation

- Built a PyQt5 dashboard with InfinyOn Fluvio for real-time greenhouse control and monitoring.
- Integrated sensor simulation for temperature, humidity, and soil quality with live control devices with advanced UI/UX design and future-ready cloud streaming architecture.

EDUCATION

B.Tech, CSE-AI&ML

Sree Vidyanikethan Engineering College, Tirupati, India
Completed in 2025 | 8.2/10

Intermediate

Koshi St. James Res. Sec. School, Itahari, Nepal
Completed in 2021 | 2.78/4

Secondary School

Koshi Public Academy, Inaruwa, Nepal
Completed in 2019 | 3.15/4

SKILLS

- ✓ C/C++, Python
- ✓ HTML, CSS, JavaScript, Bootstrap
- ✓ PHP, MySQL
- ✓ AWS, Google Cloud, Infinyion Cloud
- ✓ Scikit-learn, TensorFlow, PyTorch, OpenCV, Hugging Face Transformers, LangChain, GANs, RAGs, VAEs, NLP, LLMs
- ✓ Flask, PostgreSQL
- ✓ Generative AI – OpenAI, Gemini
- ✓ Embedded Systems, IoT and Sensors
- ✓ Raspberry Pi, Arduino, ESP32, ESP8266 board
- ✓ Git, GitHub, VS Code, Kaggle, Google Colab, Jupyter Notebook, MS-Word, Excel, PowerPoint, Power BI
- ✓ Windows, Linux, Raspberry Pi OS
- ✓ Project Management, Teamwork, Team Lead, Communication, Critical Thinking

HOBBIES

Travelling and Trekking
Robotics Competition

LANGUAGES

Nepali : Advance
English : Advance
Hindi : Advance
Maithili : Advance
Telugu : Intermediate