NANDAN R PAI

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OBJECTIVE

Aspiring AI Engineer with a strong background in Python, machine learning, and web development. Eager to contribute to AI tools and infra at **Sprinto**, combining research experience with practical development skills.

EDUCATION

B.Tech, Artificial Intelligence and Machine Learning, NMAM Institute of Technology _Expected 2026_
CGPA: 9.83

Pre-University, S.V. PU College _2020 – 2022_
Aggregate: 95.67% — Karnataka State Board

SKILLS

Languages	Python, TypeScript, C, C++, JavaScript, Go, Java
ML/AI Frameworks	TensorFlow, PyTorch, scikit-learn, OpenCV, NumPy, Pandas
MLOps & Tools	Docker, Git, CrewAI (Basics), LangGraph (Basics)
Databases & Cloud	PostgreSQL, GCP (Basics), Linux
Web Technologies	Next.js, React, GraphQL, tRPC, SvelteKit, Express, Echo
Soft Skills	Leadership, Teamwork, Communication, Adaptability

AI RESEARCH PROJECTS

Hewlett Packard Enterprise — ML-Based Network Security (CPP) _Mar 2025 – Jun 2025_

- Built router-level software for packet sniffing and malicious URL detection using ML classification.
- Created a custom dataset from trusted sources and built a feature extraction and engineering pipeline, integrating the model into live network traffic for real-time threat detection.

Rakuten — Optimization of Generative LLMs on Edge Devices _Sep 2024 – Dec 2024_

- Collaborated with a research group to optimize transformer-based generative models for edge deployment.
- Implemented quantization and pruning to reduce model size and improve inference on edge devices.

PUBLICATIONS

Logic Minimization Compression: A Lossless Approach for Medical Imaging
Authors: Nandan R. Pai, Swathi Pai M, Dr. Jacob Augustine
Proposed a logic minimization-based compression technique for medical imaging that ensures lossless fidelity and optimizes storage/transmission.

WEB DEVELOPMENT EXPERIENCE

SDE - Trainee, Inspirante Technologies Pvt Ltd _May 2024 – Aug 2024 (Remote)_

- Developed a SaaS inventory and billing system for SMEs with real-time tracking, automated invoicing, and business reporting features.
- Built the platform using Next.js, TypeScript, tRPC, Prisma ORM, PostgreSQL, and Tailwind, focusing on scalability and usability.

Web Developer, Avarch LLC _Jul 2023 – May 2024 (Remote)_

- Engineered data analytics platform for Ethereum Improvement Proposals to boost community interaction.
- Built educational resource hub for Ethereum Cat Herders, enhancing user experience and content management.

WEB DEVELOPMENT PROJECTS

Inventory Management and Billing System - Created a SaaS solution for a nursery, implementing centralized inventory and billing functionalities using Next.js, tRPC, and TypeScript.

Hackfest - Contributed to the website for a national-level hackathon, streamlining registrations, payments, and judging processes to be entirely paperless. (Try it here)

Incridea - Developed a platform using Next.js and GraphQL with a paperless jury system, real-time synchronization, and implemented a quiz platform featuring automated scoring and result processing (Try it here)

Ethereum Cat Herders - Built a dynamic website with a custom Content Management System, enabling real-time updates by users without web development knowledge. (Try it here)

LEADERSHIP AND ACHIEVEMENTS

- **President, Finite Loop Club:** Lead the largest coding and open-source community with 1,000+ members at my college.

- **Winner, Code Fury 7.0 Hackathon** — UVCE, Bangalore.

- **Organiser, Hackfest:** Coordinated a 3-day national-level tech fest consecutively for 2 years.

- **Resource Person:** Conducted Git & GitHub workshop for 150+ participants.

- **Core Tech Team, Incridea:** Built platform infrastructure for college fest.