ABHINAB DAS

Bengaluru, Karnataka, India

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Education

R V Institute of Technology and Management   Nov. 2022 – Jul. 2026
Bachelor of Engineering in Computer Science — CGPA: 8.29/10.0   *Bengaluru, Karnataka*

Experience

Hyperly.ai   Feb. 2025 – Mar. 2025
Frontend Developer Intern   *Bengaluru, Karnataka*

- Optimized 10+ Next.js pages using Lighthouse audits in a 3-member team, reducing load time by 30% and increasing session duration by 18%.
- Implemented WCAG 2.1 accessibility standards and UI animations using Framer Motion and Tailwind CSS, improving UX for 1,000+ users.
- Implemented structured data schemas and meta tag automation to improve search indexing, increasing organic traffic by 20%.
- Maintained a 95% pull request approval rate across Agile sprints with daily standups and peer code reviews using Git version control.

Projects

DeepQuest | *Next.js, OpenAI, Gemini, RAG, PostgreSQL, Redis, Docker, CI/CD*   Apr. 2025

- Architected a microservices-based agentic AI research pipeline with a PostgreSQL + Redis RAG system, achieving 40% faster query response times over a baseline retrieval approach.
- Integrated Google Cloud Vision API for multimodal document analysis supporting 10+ file formats with 85% extraction accuracy.
- Deployed Dockerized services with CI/CD pipelines, achieving 99.9% uptime across reproducible environments.

DeepSeek-R1-Finance Model | *PyTorch, LoRA, Hugging Face*   Feb. 2025

- Fine-tuned DeepSeek-R1-Distill-Llama-8B on financial datasets using LoRA with Unsloth, achieving a 15% performance gain over the base model on domain-specific financial Q&A benchmarks.
- Built an end-to-end training and evaluation pipeline; model reached 4,100+ downloads on Hugging Face and 15+ GitHub stars, demonstrating community adoption.

CycleGAN Medical Image Translation | *PyTorch, MONAI, CycleGAN, CUDA*   May 2025

- Implemented MRI-to-CT cross-modality translation using CycleGAN with ResUNet generators, achieving a 0.65 SSIM score on held-out clinical data.
- Designed a custom composite loss combining adversarial, cycle-consistency, and SSIM terms; built a MONAI-based preprocessing and augmentation pipeline for clinical evaluation.

Simple HTTPS Server | *C, OpenSSL, BSD Sockets, TCP/IP*   Aug. 2025

- Built an HTTPS server in C using OpenSSL and BSD sockets, performing TLS handshakes and handling HTTP requests over secure TCP connections on Linux.
- Implemented signal handling and deterministic cleanup of sockets and SSL resources to ensure stable shutdown and memory safety.

Technical Skills

Languages: Python, TypeScript, JavaScript, C++, C
Frameworks & Libraries: Next.js, React.js, Node.js, Express.js, PyTorch, Scikit-learn, Hugging Face, LangChain
Databases: PostgreSQL, MySQL, MongoDB, Redis
Cloud & DevOps: AWS, GCP, Docker, CI/CD, Git
Tools & Concepts: REST APIs, Linux, Microservices, RAG, System Design, Performance Optimization
Core CS: Data Structures, Algorithms, Operating Systems, Computer Networks

Achievements & Certifications

Amazon ML Summer School 2025   2025
Selected among top 3,000 from 65,000+ applicants for an intensive 8-module ML training program

Hackathon Awards   2024 − 2025
PrepLens — Winner, Dev Challenge 2024; AdSage — Top 8/50+ at Rocketium CreatiVerse Hackathon 2025

Open Source Contributions   2024
Active contributor in Hacktoberfest and GSSoC Extended 2024