

ABHINAB DAS

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Education

R V Institute of Technology and Management

B.E. Computer Science and Engineering | (8.22 cgpa upto 5th semester)

November 2022 – Present

Bengaluru, Karnataka

Experience

Hyperly.ai

February 2025 – March 2025

Frontend Developer Intern

Remote

- Developed and optimized responsive Next.js TypeScript pages for enhanced user experience.
- Implemented animations and interactive UI components using Framer Motion and Tailwind CSS.
- Improved SEO by optimizing meta tags and structured data for better search engine visibility.
- Collaborated on UI/UX improvements, ensuring accessibility and performance optimization.

Projects

DeepQuest: AI-Powered Multimodal Research Assistant

Next.js, OpenAI, Gemini, RAG, Google Vision, EXA Search API, Redis, Neondb, Docker

April 2025

- Developed an agentic AI research assistant that performs clarifying-question-based query planning, smart EXA web search, and dynamic markdown report generation.
- Implemented RAG architecture using Neon Postgres + pgvector with Redis caching for real-time, context-aware document retrieval and fallback search logic.
- Enabled multimodal input with image analysis via Google Cloud Vision API and integrated LLM routing across OpenAI, Gemini, and OpenRouter models.
- Built responsive UI in Next.js with Clerk authentication and Framer Motion animations, supporting AI-generated diagrams using Mermaid, Chart.js, and D3.js.

DeepSeek-R1-Distill-Llama-8B-finance-v1: Finetuned Deepseek model for finance reasoning

Hugging Face, Unsloth, PyTorch, LoRA

February 2025

- Finance-Specialized LLM Fine-Tuning: Fine-tuned DeepSeek-R1-Distill-Llama-8B on financial datasets to enhance domain-specific understanding and response accuracy.
- Efficient Fine-Tuning with LoRA: Applied Low-Rank Adaptation (LoRA) to fine-tune DeepSeek-R1-Distill-Llama-8B on financial datasets, reducing computational costs while maintaining model performance.
- LoRA Fine-Tuning with Unsloth: Utilized Unsloth for efficient LoRA-based fine-tuning of DeepSeek-R1-Distill-Llama-8B, significantly reducing training time and memory consumption.

PrepLens: Mock Interview Preparation Application

Next.js, TypeScript, Gemini, Tensorflow.js, Prisma, Supabase

December 2024

- AI-Powered Interview Assistance: Integrated generative AI models to provide real-time feedback on user's responses, leveraging Gemini API for intelligent answer evaluation.
- Facial Expression & Posture Analysis: Implemented real-time facial expression and posture tracking using faceapi.js to assess user confidence, alerting them if they move out of the frame.
- Scalable Backend Architecture: Designed a robust backend with Supabase and Clerk for secure user data storage, authentication, and session management.
- Resume Analysis & ATS Scoring: Developed a resume evaluation system that assigns ATS scores, identifies missing keywords, and provides improvement suggestions using Gemini models.

Technical Skills

Languages: Python, TypeScript, JavaScript, Rust

Frameworks: Next.js, React.js, Node.js, Express.js, Flask

Databases: PostgreSQL, MySQL, MongoDB, Redis

AI/ML: PyTorch, Scikit-learn, Langchain, Hugging Face, Unsloth

Cloud: Amazon Web Service, Vercel, Google Cloud Console

DevOps: Git, Docker

Others: Postman, Supabase, Neon, Prisma ORM, Dizzle ORM, Zustand

Achievements / Certifications

AdSage - Among the top 8 projects in the Rocketium's CreatiVerse Gen-AI AWS hackathon 2024.

Contributed to open-source projects during Hacktoberfest and GSSOC extended October 2024.

Preplens - Recognized as a winner in the Dev Challenge hackathon 2025.

DeepQuest - Among the top 6 projects in the FantomCode hackathon 2025