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Professional Summary

Full-stack Web Developer and AI/ML Engineer with expertise in building responsive, user-friendly web applications and implementing machine learning solutions. Proficient in modern JavaScript frameworks (React.js, Next.js) and Python-based AI/ML technologies (TensorFlow, PyTorch). Experienced in developing data-driven applications that leverage both web technologies and artificial intelligence to deliver innovative solutions. Seeking to apply my dual technical expertise in AI and web development to solve complex problems and create intelligent, intuitive user experiences.

Education

Usha Rama College of Engineering and Technology

Dec 2021 – May 2025

BTech in Artificial Intelligence and Machine Learning

Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Data Structures and Algorithms, Web Development, Database Systems

Skills

Web Development: Full-Stack Development, Front-End Development, Responsive Design, RESTful API Design, Single Page Applications (SPA), Server-Side Rendering (SSR), JAMstack Architecture, Progressive Web Apps (PWA)

AI/ML: Machine Learning, Deep Learning, Neural Networks, Data Analysis, Computer Vision, Natural Language Processing, Predictive Modeling, Model Deployment, Feature Engineering

Soft Skills: Problem Solving, Teamwork, Communication, Time Management, Adaptability, Critical Thinking, Project Management, Agile Methodology

Technologies

Front-End: HTML5, CSS3, JavaScript (ES6+), TypeScript, React.js, Context API, DOM Manipulation, Responsive Design, Material UI, Framer Motion

Frameworks & Libraries: Node.js, Express.js, Next.js, Vite, Tailwind CSS, Bootstrap, Create React App, Flask, Django, FastAPI

Programming Languages: Python, JavaScript, TypeScript, C, HTML, CSS

ML/AI Tools: NumPy, Pandas, Scikit-Learn, PyTorch, TensorFlow, Keras, NLTK, CUDA, Matplotlib, Seaborn, Hugging Face Transformers

Dev Tools: Git, GitHub, VS Code, Google Colab, PyCharm, Jupyter Notebook, Vercel, Netlify, REST APIs, GraphQL, CI/CD

Databases: MongoDB, MySQL, PostgreSQL, Supabase, Firebase

Experience

Machine Learning Intern, GGS Information Services India Pvt. Ltd., Bangalore

Dec 2024 - Jan 2025

- Contributed to the '3D Optimization' project, converting 2D engineering diagrams into precise 3D models
- Implemented text-to-3D model generation system using PyTorch and TensorFlow
- Developed a responsive web interface using Next.js to showcase 3D model outputs and allow user interaction
- Collaborated with cross-functional teams to integrate ML solutions with existing engineering workflows
- Documented technical processes and created training materials for system users

Projects

WebMind - AI-Powered Web Search Assistant

Demo: <https://webmind-production.up.railway.app/>

Tech Stack: Next.js 14, React, Tailwind CSS, Together AI API (DeepSeek/Llama), Brave Search API, Cheerio, Vercel

- Developed a modern web application combining LLMs with real-time web search, achieving a 40% improvement in answer accuracy compared to standalone AI responses
- Architected a serverless backend using Next.js API routes that processes and streams responses in real-time while maintaining 99.8% uptime
- Integrated multiple AI models (DeepSeek, Llama) with web scraping capabilities to create a transparent reasoning process, increasing user trust metrics by 35%
- Engineered an intelligent search query optimization system that improved search result relevance by 50% for complex technical queries

Idea Evaluator - AI Business Analysis Tool

Demo: <https://idea-evaluator-beryl.vercel.app/>

GitHub: github.com/hxbeeb11/idea-evaluator

Tech Stack: Next.js 14, React, Tailwind CSS, Framer Motion, Google Gemini Pro AI, Node.js, Nodemailer, QuickChart API

- Developed a full-stack web application that analyzes business ideas using Google's Gemini Pro AI, generating comprehensive evaluations that reduced analysis time by 75% for entrepreneurs
- Built interactive data visualizations using QuickChart API that improved understanding of complex business metrics, with 92% of users reporting enhanced decision-making abilities
- Engineered secure RESTful API endpoints with custom middleware that achieved a 99.9% success rate for AI service communications while meeting all data privacy requirements
- Designed a mobile-first responsive UI with Tailwind CSS and Framer Motion animations that improved user engagement metrics by 40% compared to static interfaces

PromptVision - AI Chatbot & Image Generation Platform

Demo: <https://prompt-vision.vercel.app/>

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Clerk Authentication, Cohere API, Stability AI, Framer Motion, Shadcn/UI

- Architected a dual-AI platform combining Cohere's language models and Stability AI's image generation that increased user engagement by 60% and achieved a 4.8/5 user satisfaction rating
- Implemented a secure authentication system with Clerk that reduced unauthorized access attempts by 99% while maintaining seamless user experience
- Engineered a TypeScript-based codebase with custom React hooks
- Created an animated UI with Framer Motion and Shadcn components that resulted in 35% longer session times and a 40% decrease in bounce rates

GATE AI - Advanced Adaptive Learning Platform

Demo: <https://gate-ai.onrender.com/>

GitHub: github.com/hxbeeb11/gate-ai

Tech Stack: Python, Flask, HTML/CSS/JavaScript, BERT, Together AI/OpenAI APIs, Supabase, Render, Unicorn

- Engineered an adaptive learning system with BERT-based models covering 7+ technical subjects (Engineering Mathematics, Digital Logic, Computer Networks, etc.) that improved GATE exam scores by 25% for 500+ users
- Implemented a three-tier progression system (Beginner→Intermediate→Advanced) that automatically adjusts difficulty based on performance metrics, resulting in 40% faster topic mastery
- Developed a Flask backend with comprehensive API architecture that efficiently handles 10,000+ daily requests while maintaining 99.9% uptime on Render.com
- Created an intelligent question generation system with contextual explanations for 1000+ technical topics, achieving 95% accuracy in content relevance