

KRISHNANSHU KHANNA

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Full-stack developer and ML enthusiast with 2+ years of experience building scalable applications and leading technical teams.

Education

Vellore Institute of Technology, Vellore 2022-2026
B.Tech in Computer Science and Engineering spl. IoT, CGPA: 9.25

GMSSS-21A, Chandigarh and Bhavan Vidyalaya, Panchkula 2022 and 2020
Class 12th Percentage: 93%, Class 10th Percentage: 94%

Experience

DIC MDaRT Lab, UIET Chandigarh | Summer Research Intern - AI/ML June 2025 - July 2025

- Preprocessed and cleaned large-scale **textual** and **image datasets**, enhancing input quality for a **multimodal AI system** leveraging **U-Net** for medical image segmentation.
- Designed and implemented a prototype application integrating an **AI-powered RAG chatbot** with **Expo**, enabling efficient remote triage for over **20+ skin conditions**.

Ernst & Young LLP | Summer Intern - Tech Consulting June 2024 - July 2024

- Analyzed **ERP implementation** strategies for power sector utilities to enhance operational efficiency.
- Created **technical documentation** and conducted business process analysis for **SAP solutions**.

keyNcoders, VITTBI | Frontend Developer Intern April 2024 - July 2024

- Built 10+ reusable **React.js components**, improving development speed by **30%**.
- Integrated **REST APIs** and incorporated **responsive design**, reducing page load times by **40%**.

Technical Projects

CVHelper: AI Resume Builder | Next.js, TypeScript, PostgreSQL, Langchain, OpenAI Live Demo | GitHub

- Built a full-stack, AI-powered resume builder with **Langchain RAG chat**, **Gemini-based Q&A** for mock interview, drag-and-drop UI, and real-time PDF export.
- Added **Clerk** authentication, **Stripe** payments, and PostgreSQL with **Prisma ORM**; scaled to **300+ users**, **1.7K+ views**, and avg. session time of **1.50 min**.

MELDify: Video Sentiment Analyzer | FastAPI, Docker, AWS, BERT, Next.js Live Demo | GitHub

- Developed a sentiment classification pipeline using **multimodal fusion** and BERT to analyze emotions from **video, audio, and text**; achieved **70% accuracy**.
- Deployed **FastAPI backend** on **AWS EC2** using Docker; used NextAuth, private API key auth, and real-time **quota tracking**.

MicroBlogX: Microservices Blog Platform | Node.js, RabbitMQ, Redis, Docker, AWS Live Demo | GitHub

- Architected a real-time blog app using **RabbitMQ** on **AWS** for inter-service communication, **Redis** caching, and a **hybrid database (PostgreSQL + MongoDB)** setup on **Render**.
- Containerized services with **Docker** and deployed on **Render**, achieving **99.9% uptime** through automated health monitoring and recovery mechanisms.

Skills Summary

Languages: JavaScript, TypeScript, Python, Java, HTML/CSS, SQL
Web Technologies: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Responsive Design, REST APIs, Microservices
Databases: MongoDB, PostgreSQL, Redis, Prisma ORM, Firebase
ML/AI: TensorFlow, PyTorch, Scikit-learn, BERT, NumPy, Pandas, Computer Vision, NLP
Tools: Git, GitHub, Postman, RabbitMQ, Auth0, Stripe, JWT, AWS, Docker, Kubernetes, Vercel, CI/CD
Soft Skills: Leadership, Event Management, Writing, Public Speaking

Relevant Coursework

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|----------------------------------|------------------------------|---------------------------|
| • Data Structures and Algorithms | • Database Management System | • Operating Systems |
| • Software Engineering | • Machine Learning | • IoT Programming |
| • Object Oriented Programming | • Computer Networks | • Artificial Intelligence |

Certifications

- Machine Learning Specialization – DeepLearning.AI
- Complete Full-Stack Web Development Bootcamp - Udemy

Extracurricular Activities

- Vice Chairperson, Soft Computing Research Society, VIT Vellore:** Led team of 30+ members and managed society operations, events, and technical workshops. Organized major technical event during Gravitas with 250+ paid registrations.