Vedansh Kapoor

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EDUCATION

VIT Bhopal University   2022 - 2026
B.Tech. in Computer Science and Engineering   *CGPA: 8.51/10*

SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL

Technologies & Tools: Flask, MySQL, NextJS, RESTful APIs, NodeJS, Git, ReactJS, LLMs, MongoDB, AWS

Relevant Coursework: Object Oriented Programming, Databases, Operating Systems, Data Structures & Algorithms

EXPERIENCE

Intern at Nenosystems Consulting Services   February 2025 - May 2025

MERN Stack Developer Intern

- Constructed and launched comprehensive web applications leveraging React.js, Next.js, TypeScript, Node.js, and MongoDB, showcasing expertise in both front-end and back-end development.
- Engineered responsive front-end interfaces with React.js & Next.js & via Server-Side Rendering (SSR) & Static Site Generation (SSG) and improving code reliability by TypeScript, reducing runtime errors by 25%.
- Built 5+ RESTful APIs with Node.js & Express, handling 500+ daily requests with <200ms response time, and integrated MongoDB for efficient data storage.
- Collaborated using Git & GitHub, resolving 15 critical bugs and contributing to 4 production releases.
- Technology Stack : Next.js, React, TypeScript, Tailwind CSS,Git, GitHub,MongoDB.

PROJECTS

NyAI - AI-Powered Legal Research Assistant   May 2025 - June 2025

Finalist Bharat GEN AI Hackathon

- Reduced legal research time by 90% from 4–6 hours to <10 minutes by architecting a serverless SaaS platform with hybrid RAG (Retrieval-Augmented Generation), serving 50+ concurrent users with 99.8% uptime.
- Pioneered a robust hybrid Retrieval-Augmented Generation (RAG) architecture, integratig Cloudflare AutoRAG for public data retrieval with 20,000+ legal documents indexed and a custom pipeline for secure private files, reducing data leakage risks by 40%.
- Scaled LLM outputs using Google Gemini (via Genkit), achieving 85% accuracy in legal precedent generation and 2x faster response times enhanced by Firebase authentication and feedback-driven improvement.
- Technology Stack : Next.js, React, TypeScript, Tailwind CSS, Shadcn UI, Genkit, Google Gemini, Firebase, TanStack Query, React Hook Form, Zod, Turbopack, Git, GitHub.

Crime Identification System   Sept 2024 - Mar 2025

- Constructed & implemented an AI-powered surveillance system for immediate violence detection, enhancing security and enabling rapid incident response through automated alerting.
- Engineered a robust backend using Flask and MySQL for user authentication supporting 50+ users.
- Processed 10+ simultaneous HD video streams at 15 FPS using TensorFlow + OpenCV, with <500ms latency from capture to alert , and automated emergency alerts via telepot API, triggering 200+ actionable alerts during testing with 98% delivery success rate.
- Technology Stack : Python, Flask, TensorFlow, OpenCV, MySQL, WTForms, bcrypt, telepot, NumPy, pytz.

EXTRACURRICULAR

Event Management Lead - Pi-Mathematics Club

- Orchestrated and successfully executed multiple events, managing all phases from conception to post-event analysis.
- Led and mentored cross-functional teams, fostering collaboration and accountability to achieve event objectives.
- Created and managed event budgets, consistently optimizing resource allocation and ensuring financial targets were met.

Tech Lead - MERN Stack Club

- Lead a 15+ developer team to organise 2 successful hackathons for 1000+ participants.
- Developed a project submission portal and a real-time judging dashboard that successfully handled over 80 project submissions with 100% uptime throughout the events.
- Delivered a series of 5+ technical workshops on MERN-stack , and provided mentorship to over 150 students.