Aditya Vankani

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Skills

Programming Languages: C/C++, Python, SQL, HTML, CSS, Tailwind CSS, Javascript
Frameworks: React.js, Flask, Node.js, Express.js, Stream-lit
Databases: MongoDB, Mysql, Supabase
Tools & Tech: Docker, GCP, AWS, Git, GitHub, Tableau, Figma, Logisim, Cisco Packet Tracer
Course Works: Natural Language Processing, Computer Vision, OOPs, DBMS, ML, RL, Soft Computing, DSA, Data analysis and visulization, MLOPs

Projects

ResearchGen (View Project)
Tech Stack: LLMs(Llama-3, Black-forest-labs), Lang-chain, Python, StableDiffusion, Cloudinary, GTTS, MeloTTS, OpenAI-whisper
- Engineered an AI-powered pipeline that extracts and summarises academic papers using **LLaMA 3.3 70B,** transforming them into podcasts, videos, PPTs, and graphical abstracts.
- Incorporated advanced tools (**GTTS, Whisper, Stable Diffusion, python-pptx**) to automate audio-visual content generation for enhanced research comprehension, significantly reducing academic content digestion time by 70%.

TradeZone (View Project)
Tech Stack: React.js, Flask, Supabase, Material-UI, JWT
- Launched a virtual stock market platform with real-time trading for university clubs and events with **100+ participants** in stock market competitions.
- Role-based auth, market control, portfolio management, leaderboards track **top 10 traders**, admin controlled market.
- Market news system handled by admin and Stock stats updates every **30 seconds.**

DeToxify (View Project)
Tech Stack: GCP, Vertex AI, Python, Flask, Stream-lit, NLP, Docker, Gemini API, BERT, BART-base model,Docker
- Developed an **NLP-based** system to detect toxic comments using the BERT tokeniser for preprocessing and a BART-base model for classification.
- Trained a deep learning model on a large-scale Kaggle dataset, achieving a **0.98 AUC score** in toxic comment classification.
- End-to-end **GCP Kubeflow pipeline** with Vertex AI for automated model training, evaluation, and deployment. Also merged the Gemini API to rewrite and stabilise toxic comments into neutral, non-offensive language.

sketchNsolve (View Project)
Tech Stack: React.js, MathJax, Tailwind CSS, Node.js, Gemini flash-1.5, Python(fastapi).
- Crafted an interactive sketch-to-solve platform using React and TypeScript, enabling real-time interpretation and answer handwritten math expressions and drawings with **>90%** accuracy.
- Configured LaTeX rendering via **MathJax** and enhanced usability by implementing draggable output components for a seamless user experience.
- Built canvas utilities (draw, erase, reset, export), enabling **1000+** (free tier) users to generate and download clean, annotated .png notes with sketch-to-output.

Work Experience

Software Engineer Intern, 360Design, Ahmedabad   May - June 2025
- Led development of Full-stack jewellery auction app with **2 user roles**, managing **30+** real-time bids and secure JWT-based access.
- Constructed a role-based dashboard with real-time stats across **5+ key metrics**, enhancing user insights and tracking.
- Integrated Razor-pay, Cloudinary & node-cron to automate 100% of auction closures and payment flow.

Intern, ProdigyInfotech   June - July 2024
- Created and deployed web projects, including a Tic-Tac-Toe game with AI, a live weather app, and a digital clock with stopwatch functionality.
- Leveraged React.js and Tailwind CSS to create responsive and interactive UIs, boosting user engagement by 30%.

Education

B.Tech in Computer Science at **Nirma University** | Minor in Adaptive AI (CGPA - 8.85)   2022 - 2026
Class 12th from Modi schools, GSEB (90%)   2021 - 2022

Activities

- Executive Member, Computer Society of India (CSI)
- Organised large-scale tech events such as "HackNUthon" with 500+ participants and "Cubix", fostering innovation and collaboration.
- Competed in 5+ national-level hackathons and ML competitions to strengthen practical knowledge base.

Certificates

Certified by AWS Academy in Cloud Foundations, covering 20+ core cloud concepts. (View)