Dhruv Sanan

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SKILLS

Frontend

JavaScript, HTML, CSS, Bootstrap, React, Next.js, TypeScript, Vuejs, Tailwind

Backend

Rest APIs,Node.js, docker, stripe, Payload, railway, shadcn, nodemailer, tRPC, Express, clerk

SQL (MySQL, Sqlalchemy, Sqlite, MongoDB, Prisma, Planetscale)

Flask, Redis, Celery, Postman, mailhog, resend

Python (NumPy, Pandas, scikit-learn,Seaborn, Matplotlib, Tableau for data analysis and visualisation)

Artificial Intelligence

Langchain, LangGraph, Hugging face, LLMs, OpenAI, Google Gemini, Vector Databases, RAG Apps, Replicate, PineconeDB, Vercel AI SDK

LANGUAGES

English

Punjabi

Hindi

CERTIFICATES

Applications of machine learning techniques in biology-**IIT Madras**

Proficiency in NumPy Library and Machine Learning Techniques- **IIT Madras**

EDUCATION

Indian Institute of Technology Madras, Chennai

Bachelor of Science (BS) in Data Science and Applications
CGPA-7.89

IK Gujral Punjab Technical University, Amritsar
Bachelor of Technology [B.Tech] in Computer Science and Engineering
CGPA-7.6

WORK EXPERIENCE

IIT Madras — Viva Examiner for Application Development Project (BSCS2003)

September 2023 - Current

- Reviewed and graded a music streaming app with **HTML, CSS, SQLite, JavaScript, and Python**, covering user login, Dynamic Pricing, Category Management, Product Management, Buy products from one or multiple Categories and Search for Category/Product

IIT Madras — Project Mentor/TA for Modern Application Development Project (BSCS2003)

September 2023 - Current

- Mentored and evaluated 10+ students on creating a music streaming app with **HTML, CSS, SQLite, JavaScript, and Python**, covering user login, song management, playlist management, search, rating, lyrics, and .mp3 playback

PROJECTS

Blog Lite - A Multi-User Blogging Web App — *I was this web app's full-stack developer and designer, allowing users to upload blogs with images, follow other users, and view their feeds.*

- used **Flask** for the backend, **VueJS** for the frontend, **SQLite** for the database, and Redis for caching and batch jobs

- implemented user signup and login, user profile view, blog post management, search and follow/unfollow functionality, and user's feed using Flask RESTful APIs and VueJS components

- added **token-based authentication, security features**, and data validation using **Flask Security, Werkzeug, and SQLAlchemy** and a feature to export blogs as CSV or PDF using Celery, Redis, FPDF, and CSV modules

- created a **responsive UI** that works across devices using Bootstrap and Vue PWA.

- implemented scheduled jobs to send **daily reminders and monthly engagement reports** to users using **Celery, Redis and mailhog**

- optimised the backend performance by adding caching where required using Redis and tested the APIs using **Postman**

Project link