

Rohan Shah

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EDUCATION

Dwarkadas Jivanlal Sanghvi College of Engineering, Mumbai

Graduating June 2025

Bachelor of technology in Electronics and Telecommunication (Honors in AI/ML)

GPA: 7.25/10

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Computer Networks, Management Information Systems, Digital Image Processing, Concepts of Artificial Intelligence and Machine Learning, Data Compression and Cryptography, Professional Business Communication, Big Data Analytics, Software Development Lifecycle (SDLC)

EXPERIENCE

Roombae

Jan 2024 - Feb 2024

Web Development Intern

Remote, USA

- Developed **dynamic HTML templates** using Django and Jinja2 for **Python-based web applications**, enhancing user experience and interactivity.
- Collaborated** with seniors to **gain insights** and guidance, enhancing my understanding of complex technical challenges and fostering continuous professional growth.
- Optimized scripts, making them dynamic** and enhancing overall application performance.

PROJECTS

AI-Powered Workflow Platform for BPO Efficiency | *LLM fine tuning, Gemini API, Next Js, Prompt Engineering*

2025-Present

- Developed an AI-powered claims management platform **leveraging LLMs, Gemini API, and Next.js** to **streamline workflows** and **reduce average claim processing** time by 40%.
- Implemented **advanced prompt engineering** techniques and **fine tuning** of Gemini Model 1.5 for real-time sentiment analysis, suggested replies, enabling dynamic prioritization of tasks based on client emotions and urgency.

Student Management and Recommender | *NextJs, TailwindCSS, Firebase, NextAuth, Google Cloud, Sklearn, Python*

2024-Present

- Engineered a comprehensive Student Management System that integrated advanced **content-based filtering recommendations, leveraged machine learning techniques including TF-IDF vectorization and cosine similarity** to create personalized recommendations in team assignments across a large dataset of student skills.
- Deployed an innovative **REST API** utilizing **Firebase** for **optimized real-time data retrieval**, achieving a 50% reduction in response time through Firestore's indexed queries and serving over 100 concurrent users without performance degradation.
- Conducted extensive **data analysis and visualization** using **Pandas** and **Seaborn** to uncover insights into student skill distributions across various demographics.

LEADERSHIP EXPERIENCE

Institute of Electronics and Telecommunication Engineers, International Student Forum

2022 - 2024

Infotech Head

- Directed** the Infotech department, providing solutions for issues such as payments and **student management**.
- Engineered a website for conducting a hackathon, "Clash of Codes", which **engaged 800+ participants**.
- Implemented **organic SEO strategies** for the website to conduct International Conference on Wireless Communication 2025, including **keyword research and sitemap creation**, resulting in an **increase in organic traffic** and **top 10 rankings** for key terms within Google Search Console.

SKILLS

Languages: Java, SQL, Python, Javascript(ESLint), HTML, CSS

Technologies: Sklearn, Numpy, Pandas, Jinja2, ReactJs, Shadcn UI, Nodejs, VScode, Git, Github, RESTful API, MySQL, Firebase, Google Cloud Platform, RDBMS, Oracle Database, Tensorflow, Unix, Linux, React Js, Tailwind, CSS, MS Office applications (Excel, Word, PowerPoint)

EXTRACURRICULAR ACTIVITIES

- Certifications:** *Google Data Analytics, Oracle Cloud Data Management 2023, Machine Learning by Stanford University, Foundations of Cybersecurity, Oracle Cloud Infrastructure 2024 Generative AI Certified Professional, PCAP: Programming Essentials in Python, CCNAv7: Introduction to Networks.*
- Secured in the **top 10 at Datathon 2024, KJSCE-** Analyzed Chelsea FC case study and developed a **data-driven transfer strategy** to optimize player acquisitions and sales for squad revamp.
- Achieved **fifth position at ESVC 3000 (Business Plan)** by developing a comprehensive business plan, including a **detailed SWOT analysis**, for business growth and sustainability.
- Published a Paper in DJS Strike Journal, 2024** for Student management System (ISBN:978-93-6076-096-0).