Dhruv Shah

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Education

B.Tech in Electrical Engineering, specializing Cyber Physical Systems

Institute of Technology, Nirma University

10/2022 – 06/2026 | Ahmedabad, India

Relevant Coursework: *Network Theory, Control Systems, Microcontrollers, Real-Time Systems, Data Analytics, CPS Design, Cybersecurity, Embedded Systems*

Bachelor of Science in Data Science and Applications

Indian Institute of Technology, Madras

05/2024 – 06/2028

Relevant Coursework: *Machine Learning, Python Programming, Data Structures and Algorithms, AI, SQL, Operating Systems, Web Development, Computer Networks*

Professional Experience

Software and ML Development Intern

Sunny Scientific Enterprise

12/2024 – 07/2025 | Ahmedabad, India

- *Built scalable full-stack web applications using **React.js**, **Node.js**, and **MongoDB** tailored for scientific workflows.*
- *Designed and deployed ML pipelines using **Python**, **Scikit-learn**, and **XGBoost** for scientific data analysis and prediction.*
- *Collaborated with cross-functional teams and delivered high-impact solutions adhering to agile development.*

AI/ML Virtual Project Intern

Ybi Foundations

06/2024 – 07/2024 | Remote

- *Developed machine learning models on real-world datasets; performed **EDA**, **feature engineering**, and **model evaluation**.*
- *Used **Scikit-learn** and **XGBoost** to optimize prediction pipelines and presented outcomes to stakeholders in team sprints.*

Extra Curricular Activities

- **Member**, *Jamsetji Tata Society for Innovation & Entrepreneurship (JITSIE)* – IIT Madras

- **Core Member**, *Jarvis Coding Society*, IIT Madras – Peer-led coding sessions, internal hackathons

Skills

Languages
Python, C/C++, JavaScript, HTML, CSS, SQL

Web Development
React.js, Node.js, Express.js, Wix, MongoDB, REST APIs, Git & GitHub

Machine Learning & Data Science
Pandas, NumPy, Scikit-learn, XGBoost, Matplotlib, Seaborn, EDA, Feature Engineering, Model Evaluation

Tools and Platforms
VS Code, Jupyter Notebook, Google Colab, Vercel, Firebase

Databases
MySQL, SQLite

Other Skills
Version Control (Git), Agile Workflow, Arduino, 8051 Microcontroller, IoT, Real-Time Systems, Sensors & Actuators, Embedded C, Technical Documentation, Problem Solving, Team Collaboration.

Projects

Smart Investment Platform Web App
Full-stack personal trading and portfolio management system

- *Engineered a dynamic investment platform for real-time stock monitoring using **React**, **Node.js**, **Express**, and **MongoDB**.*
- *Implemented **WebSocket API integration** for live stock data streaming and **role-based JWT authentication**.*
- *Designed interactive charts and analytics with **Chart.js**, enabling personalized portfolio insights.*
- *Ensured **scalability** and responsiveness; deployed on **Render/Vercel** with CI/CD via GitHub Actions.*

AgriX
Team Bit-अस्त्र | AI/ML + Web Development | Ongoing

- *Built an AI-powered platform for crop disease detection, market prediction, and smart alerts using **Vertex AI**, **Gemini**, and **Firebase**.*
- *Used **React.js** and **Python** for end-to-end development; integrated NLP and image processing tools.*
- *Designed intuitive UI for ease of access to government schemes and local mandi prices.*