

FULL STACK DEVELOPER · MACHINE LEARNING ENGINEER

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Summary_

Driven B.Tech student in Electronics and Communication at NIT Surat with hands-on experience in web development and machine learning. Successfully developed responsive websites and machine learning models with high accuracy. Proficient in Python, JavaScript, and full-stack development with the MERN stack. Completed major projects like Real time collaboration platform and Reinforcement Learning system. Eager to leverage my skills to solve real-world problems and embrace new challenges

Education

NIT Surat(Sardar Vallabhbhai National Institute of Technology)

Surat, Gujarat

B.Tech in Electronics and Communication

Dec. 2021 - May. 2025

• CGPA 8.13

Work Experience _____

Google Winter of Code

Surat, Gujarat

WEB DEVELOPER

Dec. 2022 - Jan. 2023

- Collaborated with a team of 2 developers to build a responsive website for a fictional company in 2 days using HTML, CSS, and JavaScript, enhancing team efficiency and project completion speed.
- Enhanced UI/UX by implementing smooth scrolling, a responsive navbar, image sliders, and modals, resulting in a 20% improvement in user engagement.

Projects

Full Stack Study Platform (StudyNotion)

Surat, Gujarat

MERN STACK (MONGODB, EXPRESS.JS, REACT, NODE.JS)

June. 2024

- Developed a study platform with separate login and signup functionalities for students and instructors, enhancing accessibility and security.
 Developed secure purchasing capabilities for students to browse, select, and purchase courses, integrating payment gateways for smooth
- Developed secure purchasing capabilities for students to browse, select, and purchase courses, integrating payment gateways for smooth transactions.
- Integrated real-time updates and notifications using WebSockets to enhance communication between instructors and students.
- Ensured data integrity and security with Express.js and MongoDB, implementing authentication and authorization using JWT.

Collaborative Work Space Project

Surat, Gujarat

NEXTJS, TAILWIND CSS, CLERK, LIVEBLOCKS

Jan. 2024

- Developed a feature-rich visual workspace using NextJs, Tailwind CSS, Convex Dev, Clerk, and Liveblocks, featuring a customizable whiteboard
 with tools for text, shapes, sticky notes, and pencil, plus layering, coloring, undo/redo, and keyboard shortcuts.
- Enabled seamless real-time collaboration with a real-time database, authentication, organization management, and invite capabilities, enhancing user engagement and teamwork efficiency.
- Styled the workspace with TailwindCSS and ShadcnUI, leveraging the Next. is 14 framework for a modern, responsive design.

CobraMobile Surat, Gujarat

NEXT.JS 14, POSTGRES, TYPESCRIPT, TAILWIND, KINDE AUTH

May. 2024

- A fullstack e-commerce shop for custom phone cases using Next.js 14, Postgres, TypeScript, Tailwind, and Kinde Auth, featuring a custom phone
 case configurator and drag-and-drop file uploads.
- Developed key functionalities including a secret admin dashboard, direct purchase capability, authentication, and automated thank-you emails.
- Ensured a modern UI with shadon-ui, Apple-inspired design, and a beautiful landing page, with the entire project written in TypeScript.

Snake Game AI with Reinforcement Learning

Surat, Gujarat

PYTHON, PYTORCH, PYGAME

May. 2024

- Implemented a Q-learning algorithm using Python, PyTorch, and PyGame to train an AI agent to play the snake game, achieving consistent scores over 40 points through effective state representation, reward formulation, and neural network function approximation.
- Developed a reward formulation strategy that balances short-term rewards (eating food) with long-term survival (avoiding collisions), leading to a 25% improvement in the agent's performance.



Programming Languages Python, C, Assembly, JavaScript, TypeScript

Frameworks/Libraries TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, ReactJs, Next.js 14, TailwindCSS, Shadcn-ui

Full Stack Development HTML, CSS, JavaScript, MERN Stack, Next.js

Data Structures and Algorithms Expert level knowledge from solving 500+ problems on LeetCode in Python

Soft Skills Collaboration, Problem-Solving, Project Management, Real-time Collaboration, UI/UX Design

Certifications _

Machine Learning Specialization

Coursera

SUPERVISED, UNSUPERVISED AND ADVANCED LEARNING ALGORITHMS

March 2023 - July 2023

• Earned a Machine Learning Specialization by Andrew Ng on Coursera, covering supervised and unsupervised learning, reinforcement learning, and neural networks.

Convolutional Neural Networks and Deep Learning

Coursera

COMPUTER VISION, DEEP LEARNING AND NETWORK ARCHITECTURE

July. 2023 - Oct. 2023

• Completed Coursera's CNN course, covering the fundamentals of Convolutional Neural Networks (CNNs) and their applications in computer vision tasks. Built CNN architectures using TensorFlow and Keras, gaining hands-on experience with real-world datasets.