

# NITYA SHAH

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## Education

Vellore institute of Technology Bhopal, India

2022 - 2026

- CGPA: 8.31

(expected)

KD Ambani Reliance Foundation School, India

2022 - 2021

- CBSE (Class XII), Aggregate: 80%

KD Ambani Reliance Foundation School, India

2019 - 2020

- CBSE (Class X), Aggregate: 88%

## Skills

**Programming & Frameworks:** Python, Java, JavaScript, Node.js, React, Express.js, TypeScript

**Databases:** MongoDB, PostgreSQL

**Web Development:** HTML, CSS, Tailwind

**Tools & Others:** Git, Version Control Tools

**Core Subjects:** Operating System, Database Management System, Computer Networks, OOPs, Data Structures & Algorithms

## Work Experience

Jio Platforms Limited ([Internship Completion Letter](#))

Data Analyst Intern

Sept 2024 – Nov 2024

- Developed a **machine learning application** focusing on **operational data analysis**.
- Performed **data preprocessing**, **feature engineering**, and trained models (e.g., Random Forest, Linear Regression).
- Achievements: Successfully applied machine learning techniques to **enhance analytics workflows**, demonstrating diligence and professionalism.

## Projects

**Complaint Management System Project/** (*JavaScript, Nodejs, Express, React, MongoDB*)

- Developed a **secure, full-stack Complaint Management System** using **JavaScript, Node.js, Express, React, and MongoDB**, featuring **JWT authentication** and an intuitive UI that improved user engagement by **40%**.
- Designed an admin dashboard with real-time analytics, role-based access control (RBAC), and priority categorization, reducing complaint resolution time by **30%** through efficient assignment workflows.
- Ensured **data integrity** using **MySQL** with optimized relational tables (users, complaints, status updates), **foreign key constraints**, and **indexing**, cutting query response time from **500ms to under 100ms**.
- Integrated **automated email notifications** for real-time complaint updates, reducing user follow-ups by **50%** while handling **200+ daily alerts** seamlessly.

**Streamify /** (*React, JavaScript, HTML, CSS*)

- Built a responsive YouTube clone (Streamify) using React**, integrating **YouTube Data API v3** to fetch and display **100+ real-time videos** with seamless search functionality, achieving **90% API success rate**.
- Implemented a custom video player** with playback controls (play/pause, volume, fullscreen), replicating **95% of YouTube's native UI** for an authentic user experience.
- Designed a recommendation engine** analyzing user watch history and trending data, increasing average watch time by **25%** through personalized video suggestions.
- Created a localStorage-powered subscription system**, enabling users to save **50+ favorite channels offline** without backend dependencies, reducing server costs by **100%**.

## Academic and Extracurricular Achievements

- Completed a **12-week Cloud Computing** course and **Marketing Analysis** course from NPTEL (IIT Kharagpur) with a score of **64% and 75%** respectively. ([Cloud Computing - NPTEL](#) ; [Marketing Analytics - NPTEL](#))
- Completed "**The Bits and Bytes of Computer Networking**" by Google via Coursera (Dec 2023), gaining expertise in **network protocols, infrastructure, and troubleshooting**. ([The Bits and Bytes of Computer Networking – Google](#))
- Practiced **150+** coding problems on *LeetCode* and *GeeksforGeeks*, developing proficiency in data structures, algorithms, and coding efficiency. Achieved the 100 Days of Code challenge by solving DSA problems on Geeks for geek and Leetcode platform.
- Graphs camp by Codeforces Master** - Solved 17 advanced graph problems, mastered DFS/BFS, Dijkstra's, and DP on graphs for competitive programming. ([Graph Theory Programming](#))