

NITYA SHAH

📞 +91 9979863580

✉️ nityashah3003@gmail.com

LinkedIn

GitHub

Education

Vellore Institute Of Technology, India

B.Tech in Computer Science and Engineering (**CGPA: 8.48**)

Oct 2022 – Jun 2026

Work Experience

Jio Platforms Limited

Sept 2024 – Nov 2024

Data Analytics Intern

Mumbai

- Designed, developed, and optimized multiple regression models (Linear, Ridge, Lasso, Random Forest, SVM) with advanced feature engineering and selection (Random Forest importance, correlation analysis, VIF), reducing model complexity and improving predictive accuracy.
- Implemented advanced time series forecasting techniques with residual diagnostics and hyperparameter optimization, reducing overfitting by 20% and enhancing model generalization across validation and test datasets by 12%.
- Conducted comprehensive statistical analysis and automated model evaluation pipelines (correlation analysis, feature refinement, performance metrics), driving up to an 18% increase in R² scores and delivering scalable, interpretable, and production-ready machine learning models.

Technical Skills

Languages: Java, JavaScript

DevTools: Postman, VSCode, GitHub

Backend: Node.js, Express.js

Databases: MongoDB, MySQL

Frontend: React.js, TailwindCSS, HTML, CSS

Projects

QuickStay — MERN-based hotel booking app with login, roles, and Stripe payments

[GitHub](#)

- Deployed a full-stack hotel booking application using the MERN stack with Clerk authentication, JWT-based role control (Admin/User), reducing unauthorized access and improving onboarding efficiency.
- Optimized backend with RESTful APIs and MongoDB to ensure scalable performance under heavy booking loads, deployed on Vercel for seamless access.
- Integrated Stripe payment gateway to support secure transactions and automate booking confirmation, improving customer trust and efficiency.
- Designed a fully responsive UI using React and Tailwind CSS, reducing user booking time across web and mobile devices.

ChatBot — MERN powered AI conversational bot

[GitHub](#)

- Developed a chatbot using MERN stack and Gemini API to generate real-time conversational responses with a responsive UI.
- Built a Node.js and Express backend with MongoDB storage to manage chat sessions and maintain scalable conversation history.
- Designed RESTful APIs and a modular frontend architecture, enabling easy deployment and customization for multiple chatbot use-cases.

Streamify — React app for real-time video streaming with recommendations

[GitHub](#)

- Built a responsive video streaming platform using React and the YouTube Data API to fetch and play real-time videos.
- Implemented a custom video player supporting playback controls for an immersive viewing experience.
- Designed a recommendation system that suggests personalized videos based on watch history.
- Optimized UI for scalability and consistent cross-platform performance across desktop and mobile environments.

Courses

- Backend Development and API Creation
- AWS Cloud Practitioner Essentials
- Computer Networking

Achievements

- Solved 150+ algorithmic problems on LeetCode and GeeksforGeeks, building strong proficiency in data structures and algorithms.