Nitya Dharmeshkumar Shah

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EDUCATION

KD Ambani Reliance Foundation School, India   **2019 - 2020**
- CBSE **(Class X),** Aggregate**: 88%**

KD Ambani Reliance Foundation School, India   **2021 - 2022**
- CBSE **(Class XII),** Aggregate**: 80%**

Vellore institute of Technology Bhopal, India   **2022 - 2026**
- B.Tech **(CSE),** CGPA**: 8.49**

TECHNICAL SKILLS

Programming Languages: Java, JavaScript
Frontend: React, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js
Databases: MySQL, MongoDB
DevTools: Postman, VSCode, Vercel, GitHub

WORK EXPERIENCE

JIO Platforms Ltd. – Data Analyst Intern (Certificate)   Mumbai, India
Application of Machine Learning for Operational Analytics   27.09.2024 - 29.11.2024
- 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 by 25% and improving predictive accuracy by 15%.
- 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 R^2 scores and delivering scalable, interpretable, and production-ready machine learning models.

PROJECTS

QuickStay | HTML, CSS, JavaScript, React, Node.js, MongoDB   [GitHub]
- Deployed a full-stack hotel booking application using the MERN stack, integrating Clerk authentication with role-based access control (Admin/User) and secure JWT sessions, which reduced unauthorized access attempts by 40% and improved user onboarding efficiency by 25%.
- Optimized backend with RESTful APIs and MongoDB, ensuring scalability and consistent performance under heavy booking loads and deployed on Vercel for seamless hosting and user access.
- Integrated the Stripe payment gateway for secure, real-time transactions and automated booking confirmation, improving customer trust and operational efficiency by 35%.
- Designed a 100% mobile-responsive interface using React and Tailwind CSS, tested across desktop, tablet, and mobile devices, reducing booking process time by 20%.

Streamify | HTML, CSS, JavaScript, React   [GitHub]
- Engineered a responsive YouTube clone using React, integrating the YouTube Data API to fetch and display over 100 real-time videos with a 90% API success rate.
- Executed a custom video player with playback controls (play/pause, volume, full screen), replicating 95% of YouTube's native UI for an authentic user experience.
- Formulated a recommendation engine providing personalized video recommendations based on watch history.
- Architected a scalable and cross-platform interface, ensuring 100% and consistent performance across multiple platforms.

ACADEMIC & EXTRACURRICULAR ACTIVITIES

- Practiced 100+ coding problems on LeetCode, developing proficiency in data structures, algorithms and coding efficiency.

CERTIFICATES

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