Nitesh Kumar Rai

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EXPERIENCE

TATA CONSULTANCY SERVICES LTD | FULL STACK WEB DEVELOPER

July 2022 - Present | Kolkata, India

- Developed an efficient reporting system for a soda ash plant to track advisory adoption, timeseries trends, and efficiency report, leveraging MinIO for report storage, increasing production efficiency by 1%.
- Designed a full-stack Equipment Health Monitoring System that analyzes sensor data and predicts asset failure using a pre-trained model. Developed an intuitive interface with dynamic alerts and charts and strong back-end to provide real-time insights for maintenance thus increasing operational efficiency.
- Designed an intuitive user interface (UI) for product simulation, enabling users to modify material grades, assess feasibility, and analyze environmental impact including carbon footprint, for streamlined decision-making
- Developed an AI-powered document and media summarization
 platform with an interactive chat UI. It allows users to summarize and
 query text documents, caption audio/video files, and engage in
 context-aware conversations based on the media. The system
 leverages LLMs for intelligent insights, making information retrieval
 seamless and efficient.
- Designed and developed four distinct but purpose-aligned user interfaces (UIs) incorporating responsive layouts and CSS, collectively streamlining associate on boarding and hands-on training, leading to a reduction in training costs by up to 70%:
 - Developed a UI that brings together open-source approved models, allowing users to register, access, and interact with them easily. The platform provides key details like the model's purpose, size, and specs, and the URL can be used for integration anywhere.
 - Developed a code generator UI that takes user prompts and writes code in various programming languages. The platform can also find bugs, explain code, and allows users to interact using voice through its voice-to-text feature.
 - Created a UI that generates new data based on existing datasets, trains models by adjusting various hyperparameters, and tests the results to evaluate the effectiveness of the trained models.
 - Developed a platform that serves as a central place for documents uploaded by an admin. Users can view or download the documents based on the admin's permissions.

PROJECTS

PERSONAL PORTFOLIO WEBSITE | FRONTEND DEVELOPER

Jan 2023 - Present | Kolkata, India

- Developed a responsive frontend portfolio using Next.js, Framer Motion for animations, and Tailwind CSS, with interactive transitions in galleries and navigation to boost engagement. Optimized for performance, SEO, and mobile responsiveness, achieving fast load times and high Lighthouse scores.
- View live site: portfolio-niteshh-ks-projects.vercel.app

EDUCATION

GOVERNMENT COLLEGE OF ENGINEERING AND CERAMIC TECHNOLOGY

B. TECH IN INFORMATION TECHNOLOGY location2018 - 2022 | Kolkata, India CGPA: 9.1 / 10

SHREE JAIN VIDYALAYA

HIGHER SECONDARY location 2015 - 2017 | Kolkata, India Percentage: 80%

SHREE JAIN VIDYALAYA

SECONDARY location 2015 | Kolkata, India Percentage: 81%

SKILLS

PROGRAMMING LANGUAGES
Python • Javascript • Typescript

FRONTEND TECHNOLOGIES ReactJS • NextJS • AngularJS • Redux • HTML • CSS • Tailwind CSS

BACKEND TECHNOLOGIES Flask • NodeJS • Express.Js • REST APIs • LangChain • LangGraph • GenAI

DATABASES
PostgreSQL • Mongo DB

TOOLS & TECHNOLOGIES Docker • Git

LINKS

Github: https://github.com/Niteshh-K LinkedIn: www.linkedin.com/in/nitesh-kumar-rai-397241193/