Rinka Yadav

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EDUCATION

- **National Institue of Technology Tiruchirappalli**   Tamilnadu, India
  Bachelor of Technology - Chemical Engineering; GPA: 7.50   *2021 - 2025*
  Courses: *Data Structures and Algorithms, Mern Stack, DBMS, Operating System, Artificial Intelligence, Machine Learning, Networking*

SKILLS SUMMARY

- **Languages**:   C, C++, Python, JavaScript, TypeScript
- **Frameworks**:   React.js, Next.js, Scikit, ExpressJs, NodeJs, Bootstrap, Machine Learning
- **Tools**:   GIT,GitHub,Linux, PowerBI
- **DataBases**:   MongoDB,MySQL
- **Soft Skills**:   Leadership, Blog Writing, Public Speaking, Time Management

EXPERIENCE

- **Social Media Application**
  Summer Research Internship-(NITT)   *May 2023 - July 2023*
  - **Research Internship**: Worked under Dr. Madhukrishna, developing a social media application from scratch using the MERN stack.
  - **Interactive Social Media Platform**: Developed using **MERN** (MongoDB, Express.js, React.js, Node.js), enabling content sharing, community participation, and topic exploration.
  - **Core Functionalities**: Developed user authentication using JWT reducing unauthorized access incidents by 40%, pagination, and list rendering using RESTful APIs, enhancing a seamless and interactive user experience.

- **Trading application**
  SDE-Intern-(SkillQuest Learnings)   *Dec 2025 - Present*
  - **Frontend**: Developed a multi-layout feature for stock chart analysis using Bootstrap, ensuring a high-quality user experience and seamless integration.
  - **Otp Generation**: Implemented **OTP** verification in the login window to validate correct Email-id of the user using Nodemailer npm module reducing unauthorized request by 75%.
  - **Testing**: Analyzed and studied various architectural designs used in the industry for React-based applications and utilized the **Redux Toolkit** library for global state management in components, enhancing scalability of application by 80%. Used cypress for **end-to-end** testing of the application for the features like signup and login and multiple other api end points.

PROJECTS

- **Freelancing Project - Product Management Web Application**: I designed and implemented a fully functional platform that enables users to showcase and advertise their product details, utilizing **MERN**(MongoDB, Express.js, React, and Node.js). The platform includes **secure** login and registration features, and robust admin routes for effective product and user management application available to 100+customers. Additionally, I implemented **SEO optimization** ,product search functionality by categories and added pagination for better user experience. This was complemented by the use of **RESTful APIs**,ensuring efficient data handling and seamless frontend-backend integration.

- **Medical Insurance Price Prediction (Machine Learning)** : Developed a medical insurance price prediction model through exploratory data analysis, outlier handling, and categorical feature encoding. Built and optimized machine learning models, including Linear Regression, RandomForest, and XGBoost, with **cross-validation** and hyperparameter tuning. Deployed the final XGBoost model for accurate predictions and analyzed feature importance to enhance model performance.

- **Online Payment Fraud Detection (Machine Learning)** : Developed an online payment fraud detection system using Python and machine learning models like **XGBoost**, RandomForest, and Logistic Regression to accurately predict fraudulent transactions. Conducted data preprocessing and feature engineering, including categorical encoding and correlation analysis, to optimize model input. Achieved high model performance by training multiple classifiers and evaluating with ROC AUC scores and **confusion matrix** analysis, showcasing expertise in fraud detection.

ACHIEVEMENTS

- Solved 2000+ problems on different coding platforms (leetcode, CSES, CodeChef, gfg etc).
- Secured Top 50 rank in Code Like Ada hackathon conducted by LG Ad Solutions.
- Secured 1st place in the Code-A-Thon conducted by Spider RD Club and Women Inclusivity Network (WIN NITT)
- Secured 15th rank in a Hackathon- Python Challenge conducted by Delta-Force (coding club of NIT TRICHY).
- Cleared sheCodes hackathon conducted by Airtel.

VOLUNTEER EXPERIENCE

- **Manager, Chemistry Mentor, Ignitte**   NITT, Tamilnadu
  Mentored underprivileged students in JEE, creating materials, grading , performance analysis.   *Mar 2021 - Present*

- **Manager, Team WebOps, ALCHEMY:**   NITT, Tamilnadu
  Coordinated Web-Dev Team for Alchemy, the national symposium of Chemical Engineering.   *Jan 2018 - Present*