

SUNIL RANA

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OBJECTIVE

Enthusiastic and detail-oriented MCA student with hands-on experience in the MERN stack, data visualization, and machine learning. Seeking a challenging software development role where I can leverage my skills in building scalable web applications and predictive models to contribute to innovative projects and enhance my technical expertise in a fast-paced environment

EDUCATION

Dayananda Sagar College of Engineering (DSCE)

Bangalore

Masters of Computer Applications

August 2023 - Present

- **CGPA:** 8.96/10.00

SKILLS

- **Programming Languages:** Java, JavaScript
- **Web Technologies:** HTML, CSS, EXPRESS JS, NODE JS
- **Frameworks:** React
- **Database Software:** MySQL, SQL, MONGODB
- **Core Concepts:** Object-Oriented Programming (OOP), Data Structure and Algorithms (DSA)
- **Tools:** Vs code, Eclipse Ide
- **Soft Skills:** Teamwork, Communication, Problem Solving

PROJECTS

Excel Analysis Platform:

[Live Link](#) 

- Engineered a full-stack web application that allows users to upload Excel files and receive insights through interactive dashboards.
- Implemented real-time data visualization with charts, summaries, and key metrics, enabling data-driven decision-making.
- Integrated secure user authentication with JWT and password reset via email, improving account security and user experience.
- Enabled efficient file management and seamless data analysis for a smooth and engaging user interface.

Web Application Expense Tracker:

[Live Link](#) 

- Developed a full-stack MERN (MongoDB, Express.js, React, Node.js) expense tracker with secure JWT-based authentication for login and registration.
- Implemented an interactive dashboard to display total balance, income, expenses, and category-wise expense tracking.
- Optimized for performance and user experience with responsive UI and real-time data updates.

Gemini Dashboard using Gemini Api:

[Live Link](#) 

- Developed a chat feature enabling users to initiate new conversations and access previous chat history.
- Designed a responsive and intuitive user interface to enhance user experience and engagement.
- Integrated Gemini API for seamless backend communication and real-time data handling.

Diabetes Prediction Method based Machine Learning:

[Live Link](#) 

- Developed a predictive model to forecast diabetes using patient health metrics such as glucose level, BMI, blood pressure, and age.
- Evaluated and compared Linear Regression, Multiple Linear Regression, and Polynomial Regression models to determine the most accurate prediction approach.
- Optimized model performance through feature analysis and regression evaluation metrics.

INTERNSHIP EXPERIENCE

Gonagoor Technologies

November 19th 2024 to December 28th 2024

Software Development Intern

- Developed a Typing Accuracy Checker with real-time feedback, improving typing efficiency
- Created a Major-Minor Mapping Converter using HTML, CSS, JavaScript, and Express.js. Gained hands-on experience with front-end technologies, Git, and deployment workflows.

COURSEWORK

Data structures and algorithms	OOPS concept	Machine Learning
Database management	Java	Web development

CO-CURRICULAR ACTIVITIES/ACHIEVEMENTS

- Solved 100+ algorithmic problems on LeetCode and GeeksforGeeks (Arrays, Trees, LinkedList), improving problem-solving skills and coding efficiency.
- participated in the CodeSprint 2024 Hackathon and exhibited problem-solving and collaborative abilities