

RUCHA DAVE

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EDUCATION

San Diego State University

August 2024 - May 2026

Master's, Computer Science

- AI and Machine Learning, AOOP, ADBMS, Data Science, Web and Mobile Applications, Management of Software Development, Algorithms

L.D college of engineering, Ahmedabad

June 2021 - June 2024

Bachelor's, Computer Engineering

GPA: 3.91

PROFESSIONAL EXPERIENCE

San Diego State University

San Diego, CA, USA

Graduate Assistant

September 2024 - Present

- Assisted professor in research by analyzing large datasets from 2,800 + companies, extracting key insights that contributed to research outcomes.
- Created and executed machine learning scripts, automating data processing and improving task efficiency by 40%.

Mokshit Infotech

Surat, GJ, India

Web Developer Intern

January 2024 - April 2024

- Optimized the sports web application "Allies Sports", serving over 1,000 sports organizations, providing an efficient management platform for handling student enrollments, event scheduling, and curriculum management.
- Engineered back-end solutions that boosted processing speed by 25%, accommodating a 20% increase in user volume.
- Collaborated with a cross-functional team using .NET Core, Web API, Jira, Postman, and Power BI to deliver a seamless experience for students, parents, and staff resulting in improved communication skills.

Tatvasoft

Ahmedabad, GJ, India

React.JS Developer Intern

July 2023 - August 2023

- Developed a Book Store Application using React.js, enabling 500+ users to search, select, and purchase books.
- Introduced features like a shopping cart, user login, and streamlined account setup, reducing checkout time by one-fifth and increasing user retention by 15 %.
- Compiled detailed reports, conducted research, and gathered insights, leading to enhancements in functionality and user satisfaction.

RELEVANT PROJECTS

PackFoodReady2Go

- Constructed a web application aimed at 250+ food packaging providers, offering over 70 different traditional and eco-friendly packaging solutions for restaurants, cafes, and food businesses.
- Built a comprehensive platform with features like product categorization, wishlist, cart management, and a real-time admin panel, utilizing 200+ lines of code to refine product update efficiency by 30%.
- Utilized .NET, MVC, and the Repository Pattern for a scalable and maintainable backend, integrating Stripe for secure payment processing, designed to handle up to 100+ transactions per week.
- Created a responsive frontend with JavaScript, HTML, CSS and Bootstrap, optimizing user experience across all devices.

Digital Vehicle Maintenance

- Executed an Android application for real-time vehicle servicing and bookings.
- Accomplishing a user-friendly and responsive frontend using Android, HTML and CSS, enhancing user navigation and service booking ease by 25%.
- Leveraged PHP for server-side processing and Firebase for real-time data management and service booking storage, capable of supporting 50+ concurrent transactions

Laptop shop management system

- Prepared a web application to manage inventory for over 100 laptops, augmenting data handling efficiency.
- Applied Java, JSP, Servlets, Bootstrap, and MySQL to enable CRUD operations, achieving significant improvements in data management.
- Designed an intuitive system that improved administrative control and accuracy, cutting manual entry errors by 20% . Overall, improved problem-solving through implementation.

SKILLS

Programming Languages : Java, C/C++, SQL, Python, PHP, JavaScript

Web Technologies: HTML/CSS, Bootstrap, React.js, Web API, MVC, .NET Core, JSP, Repository Pattern, C#

Libraries & Frameworks: Pandas, NumPy, Matplotlib

Database Management: MySQL, MySQL Workbench

Tools & Platforms: Android, Github, Postman, JIRA, Jupyter Notebook, Stripe, Power BI, RabbitMQ, MS Office, Canva

ACHIEVEMENTS

- Selected for the Student Startup and Innovation Policy (SSIP) 2021 initiative and awarded a prize of 12,000 INR.
- Finished a 6-month Android development training at Govardhan Institute.