Rutuparna S Dharan

9353989459 | rutuparnasdharan@gmail.com | Hassan, Karnataka

Skills

Python, Java, HTML5, CSS3, JavaScript, PHP, C++, SQL, Image Processing, Android App Development, AngularJS, Django, Computer Vision, Data Analysis, Machine Learning, Linux, Problem-Solving

Experience

Research Project | *Independent Study (02/2025 - 07/2025)*

Developed a software solution for processing images of textile-punched cards to extract weaving designs.
- Designed and implemented an image processing algorithm to analyze and extract weaving designs from textile punch card images.
- Created a mobile application to capture images of punch cards in real time, process these images, and generate bitmap files of the designs.
- Enabled cloud storage for bitmap files to be used as input for electronic Jacquard looms.

Education

Bachelor's of Engineering in Computer Science & Engineering | Government Engineering College, Mosalehosahalli, Hassan | 07/2025 | Hassan, Karnataka
- Completed coursework in Data Structures and Algorithms, Operating Systems, Finite Automata and Compiler Design, Computer Networks, and Full Stack Web Development, Advanced Computer Architecture, Database Management Systems, Computer Graphics, Project Management.
- CGPA: **9.2**

Pre-University: PCMB | M Krishna PU College | 05/2021 | Hassan, Karnataka
Percentage: **98.5%**

10th | CKS English School | 05/2019 | Hassan, Karnataka
Percentage: **93.8%**

Project

Attendance Monitoring System: Developed a system for student attendance tracking using facial recognition technology. Registered students by capturing multiple facial images, implemented real-time face detection to mark attendance and used a terminal-based interface for user interactions.

SpaceX Falcon 9 Stage 1 Analysis: Conducted analysis on SpaceX rocket launch data to predict landing outcomes using machine learning techniques. Performed exploratory data analysis and identified success trends based on factors such as payload mass and launch site. Developed predictive models, with the Decision Tree classifier achieving the highest accuracy.

Yum-Yum Algorithm-Recipe Sharing Website: Created a recipe-sharing website that enables users to search and share recipes. Utilized MySQL, AngularJS, Bootstrap, HTML, CSS, and JavaScript, and integrated APIs to enhance search functionality.

BudgetBuddy-Expense Tracking Website: Developed a financial management application, using HTML, CSS, JavaScript, and PHP. Integrated essential functionalities and ensured secure database management to provide a user-friendly experience.

Certifications

Python Programming from Internshala, Foundation course from Edunet with SAP and Microsoft, IBM Data Science Professional Course through Coursera, Data Science Bootcamp from OpenHPI