

RUTUPARNA S DHARAN

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OBJECTIVE

Enthusiastic software engineer skilled in Python, Java, SQL, and JavaScript. Seeking a collaborative role to contribute to innovative software development and expand expertise in emerging technologies.

EDUCATION

Bachelor of Engineering in Computer Science & Engineering, Government Engineering College, Mosalehosahalli, Hassan Relevant Coursework: DSA, Operating Systems, Finite Automata and Compiler Design, Computer Networks, Full Stack Web Development, Advanced Computer Architecture, DBMS, Computer Graphics, Project Management, Cryptography and Network Security, Big Data Analytics, Cloud Computing. CGPA: 9.25	July 2025
Pre-University: PCMB, M Krishna PU College, Hassan, Karnataka Percentage: 98.5%	May 2021
10th, CKS English School, Hassan, Karnataka Percentage: 93.8%	May 2019

SKILLS

Technical Skills	Python, Java, HTML5, CSS3, JavaScript, PHP, C++, SQL, Linux
Development Tools	Android App Studio, AngularJS, Django
Specialized Knowledge	Image Processing, Computer Vision, Data Analysis, Android App Development, ML
Soft Skills	Problem-Solving, Collaboration, Communication, Adaptability

EXPERIENCE

Research Project — Independent Study	Feb 2024 - Jul 2024
- Designed and developed an advanced image processing algorithm to accurately analyze and extract intricate weaving patterns from textile-punched card images, preserving culturally valuable designs with a precision rate of 95% across 15 tested designs. - Built a real-time mobile application to capture punch card images, process them on the go, and automatically generate bitmap design files. - Integrated cloud storage for seamless storage and retrieval of bitmap files, enabling their direct use in electronic Jacquard looms and improving production. - Fully synchronized the application with hardware components to enhance operational efficiency.	

PROJECTS

AI Audio Transcriber and Summarizer
- Built a system for text summarization and transcribing audio using Ollama and Retrieval-Augmented Generation (RAG). - Designed a user-friendly frontend with Streamlit. - Developed a robust backend with Flask for seamless integration. - Created a chat bot that processes files to answer queries.
Attendance Monitoring System.
- Developed a facial recognition-based system for student attendance tracking. - Registered students with 100+ facial images and implemented real-time face detection with 92% accuracy. - Used a terminal interface for user interactions, improving the efficiency of attendance tracking.

SpaceX Falcon 9 Stage 1 Analysis.

- Analyzed SpaceX rocket launch data using machine learning to predict Falcon 9 stage landings.
- Achieved 85% accuracy with Decision Tree classifiers.
- Identified key factors like payload mass and launch site that contributed to success.

Yum-Yum Algorithm - Recipe Sharing Website.

- Built a recipe-sharing platform using MySQL, AngularJS, and Bootstrap.
- Integrated APIs that enhanced search functionality.
- Developed an admin panel to approve and monitor the website.

BudgetBuddy - Expense Tracking Website.

- Created a financial management app using HTML, CSS, JavaScript, and PHP.
- Implemented secure database management.
- Reduced user data entry errors and improved user experience.

CERTIFICATIONS

Python Programming, Internshala

IR4.0 Foundation Course, Edunet with SAP and Microsoft

IBM Data Science Professional Certificate, Coursera

Data Science Bootcamp, OpenHPI