APARNAA A S

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CAREER OBJECTIVE

A dedicated and ambitious Computer Science Engineering (Data Science) student with a strong foundation in algorithms, data structures, and programming. Skilled in applying analytical and problem-solving abilities to develop innovative, data-driven solutions. Passionate about leveraging emerging technologies to solve real-world challenges and committed to continuous learning and professional growth in the field of software engineering and data science.

EDUCATION QUALIFICATION

CMR Institute of Technology, Bengaluru							**2023 - 2027**
Bachelor of Engineering, Computer Science Engineering (Data Science) (GPA: 9.32 CGPA)

Sri Chaithanya PU College, Bengaluru							**2021 - 2023**
12th Grade (CBSE), Science

New Horizon Public School, Bengaluru							**2021**
10th Grade (ICSE)

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C
- **Web Technologies:** HTML, CSS, JavaScript
- **Version Control and Tools:** Git, GitHub
- **Analytical Tools & Libraries:** NumPy, Pandas, Matplotlib
- **Database:** SQL, MongoDB
- **Coursework:** Data Structures and Algorithms, Database Management System, Operating Systems, OOPS

PROJECTS

Automated Attendance using Facial Recognition

- Implemented an automated attendance system using OpenCV's LBPH (Local Binary Patterns Histogram) algorithm for reliable face recognition.
- Designed to capture faces in real time, extract LBPH features, and accurately mark attendance by matching facial histograms.
- Enhanced classroom/workplace automation by eliminating manual attendance, reducing proxy entries, and improving record accuracy.
- Achieved robust performance under varying lighting and angles due to LBPH's texture-based feature extraction.

Automatic Staircase Lighting

- Built an automatic staircase lighting system using ESP32 and PIR sensors to detect human presence.
- Implemented automated light activation and deactivation for enhanced convenience.
- Ensured energy efficiency by switching off lights when no motion is detected.
- Designed for multi-floor staircase environments, providing a scalable and user-friendly solution.

Billing System Management

- Developed a Python-based billing system supporting restaurants.
- Designed a Tkinter GUI to provide a user-friendly and interactive billing interface.
- Enabled users to view available items, select quantities, and generate bills dynamically.
- Integrated with MySQL database for secure data storage and efficient retrieval.

EXTRACURRICULAR

CMR Institute of Technology | *Co-curricular & Extra-curricular Activities*

- Participated in Full Stack Fiesta Hackathon conducted at CMRIT, Bengaluru.
- TechXcelerate Hackathon: Participated in a 24-hour hackathon and workshop on Artificial Intelligence & Machine Learning, conducted at BITS Hyderabad.
- Flutter & Dart - The Complete Guide [2025 Edition], Udemy (Ongoing).
- Completed Divide and Conquer, Sorting, Searching and Randomized Algorithm by Sanford on Coursera.
- Completed Programming for Everybody (Getting Started with Python) by University of Michigan on Coursera.
- Completed Fundamentals of DSA by CMRIT.
- Attended the IEEE Future Networks World Forum (FNWF 2025) in Bengaluru, gaining insights into emerging communication systems, 6G technologies, and next-gen network innovations.
- Attended Local SWE (Society of Women Engineers) Bengaluru Seminar - sessions on leadership, innovation, and women in technology.
- Completed #include.her Women's Entrepreneurship Bootcamp organized by Wadhwani Foundation at BMS College of Engineering, Bengaluru (Feb-Mar 2025).
- Organized and hosted multiple technical, non-technical, and outreach activities under the IEEE Student Branch at CMRIT, fostering student engagement and community impact.
- Sponsorship Head at CCA CMRIT – Placement Club, leading event organization, managing funds, and coordinating with sponsors to support placement preparation activities.
- Active member of the Society of Women Engineers (SWE), participating in workshops, networking, and mentoring programs to support women in engineering.
- Participating in NSS initiatives, including attending the Bengaluru Eco Summit 2024.
- Rotaract Club Volunteered in organizing and coordinating a blood donation camp, assisting with donor registration, logistics, and awareness initiatives to support a successful event.

AWARDS & ACHIEVEMENTS

- Achieved Certificate of Academic Excellence for being the College Topper in the 2nd Semester, CMRIT.
- Served as Membership Drive Chair of IEEE Student Branch CMRIT, Bengaluru.
- Winner of Mindspeak: Battle of Perspectives competition at CMRIT.
- Secured 2nd Place in Basketball at UDAAN Sports Fest 2024, Presidency University.