SAICHARAN REDDY

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Education

SR University, Telangana, India   **Oct 2022 – May 2026**
Bachelor of Technology in Computer Science   *CGPA: 9.2*

SR College for Boys, Hanamkonda   **Jul 2020 – Jul 2022**
MPC Intermediate   *Percentage: 95%*

Adhitya Digi High School, Hanamkonda   **Jun 2019 – Jun 2020**
SSC   *GPA: 10*

Projects

Student Record Management   **Python**

- Engineered a customized student record management system that integrated with existing databases; achieved 30% reduction in manual workload, allowing staff to focus on enhancing student engagement and support initiatives.
- Innovated a robust automated reporting solution that integrated seamlessly with existing databases, resulting in a significant reduction of 20% in administrative tasks while enabling teams to generate reports 25% quicker for improved decision-making.

Online Reservation System   **Java**

- Created a console-based Online Reservation System in Java, supporting over 100 users to make, view, and cancel reservations efficiently, applying object-oriented programming principles.
- Implemented key classes, including Reservation and Reservation System, leveraging ArrayLists for managing up to 500 reservations, improving data handling efficiency by 20%.
- Designed a user-friendly console interface using the Scanner class, reducing user input errors by 15% and improving reservation processing time by 25% with real-time feedback.

Hypothyroid Prediction   **Python, Jupyter Notebook**

- Formulated a machine learning model for hypothyroid prediction utilizing CSV data, achieving 92% accuracy through advanced feature selection techniques; model utilized by 15 healthcare professionals to enhance patient diagnosis efficiency.
- Optimized data, handling missing values, normalization, boosting prediction accuracy by 15%.
- Implemented visual analytics tools to analyze model features, generating insights that informed strategic research decisions; this initiative directly contributed to the identification of 10+ new factors influencing hypothyroid conditions.

Internships

National Institute Of Technology   **May 2024 – June 2024**
AIoT Intern   *Warangal, India*
- Established a facial recognition attendance system that drastically improved student identification accuracy; this initiative transformed the attendance process for 2,000+ students and provided reliable data for academic reporting.
- Refined the face recognition algorithm, reducing processing time by 15% and significantly improving system responsiveness.
- Integrated the system with existing attendance management platforms, streamlining operations and enhancing overall efficiency by 25%.

AICTE Virtual Internship   **Sep 2023 – Nov 2023**
Machine Learning Intern   *AWS Academy*
- Completed a virtual internship focusing on AI and Machine Learning through the AICTE on AWS Academy.
- Acquired hands-on experience in machine learning techniques and applications.

Technical Skills

Programming Languages: C, Java, Python, HTML, CSS

Libraries/Frameworks: Scikit-learn

Databases: MySQL

Other Achievements (Certifications, Workshops Attended)

Data Structures and Algorithms - Coursera

Database Management System - NPTEL

Azure AI Fundamentals - Microsoft

IBM Machine Learning - Coursera