MAJJI POTHANA SATYA TEJA

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Summary

I'm an Electronics and Communication Engineering student at CMR College with a CGPA of 7.76 and a strong interest in communication systems, data analysis, and cloud technologies. During my virtual AWS Data Engineer internship, I gained hands-on experience with tools like S3, Glue, Redshift, and QuickSight, working on real-world data pipelines and visualizations. I'm comfortable working with Python, SQL, and basic web technologies, and have built projects like an IoT-based accident monitoring system and a face recognition-based attendance tracker. I'm a quick learner who enjoys solving problems and exploring new technologies. Outside academics, I'm active in community events and have a deep interest in sports analysis, photography, and history.

Internship

AWS Academy **18 Jan,2024-20 Mar,2024**

Completed a virtual AWS Data Engineer internship where I gained hands-on experience with cloud-based data processing and storage tools such as AWS S3, Glue, Athena, and Redshift. Built and managed ETL pipelines for large-scale data transformation using Python and SQL. Worked with data lake architectures to enable scalable and secure data ingestion. Utilized Amazon QuickSight for creating interactive dashboards and visualizing key insights. Focused on real-world data workflows including cleaning, transformation, and schema management. Strengthened skills in cloud computing, data engineering, and analytics.

Projects

Child Rescue System from Borewell using ESP32-CAM Based Robotic Arm — Web-Based Interface

- Designed and implemented a cost-effective, Wi-Fi-enabled robotic system to assist in the real-time rescue of children trapped in borewells. The project integrated an ESP32-CAM for live video streaming, L298N motor drivers for precision control, and a web-based interface to enable remote monitoring and operation. The robotic arm was engineered to navigate narrow borewell shafts and safely retrieve trapped individuals with minimal human risk. This system significantly improved rescue response times and operational safety, offering a portable and scalable solution particularly suited for rural deployments

Student Attendance System | Python | Face Recognition | Firebase **December 2023**

- Developed a real-time student attendance system using Python with face recognition, OpenCV and Firebase.
- Designed a user interface that shows an active background during recognition, displays the student's picture and information upon successful detection, and confirms successful attendance marking.
- Enabled real-time data updates with Firebase and reflected attendance records in an Excel sheet.

Technical Skills

Programming Languages: Python, SQL

Database: Dynamo DB(familiar), MySQL

Backend Cloud Technologies: AWS (S3, Glue)

Development Tools: Github, Visual Studio Code, Pycharm, Jupyter Notebook

Other Skills: Problem-solving, Time Management, Microsoft Office Suite,Team Collaboration, Communication Skills, Data Structures and Algorithms (DSA), Salesforce Fundamentals, AWS, Flexibility, Analyzing things, Editing

Education

CMR College of Engineering and Technology, Medchal, Telangana. **Nov 2021 - 2025**
B.Tech in Electronics and Communication Engineering (CGPA: 7.76)

Narayana Junior College, Hyderabad, Telangana. **2019 - 2021**
Intermediate (Percentage: 93.8)

Sri Chaitanya Em High School, Chintalapudi, Andhra Pradesh. **2019**
Class X (CGPA: 9.7)

Extra Curricular Activities: Volunteering, Tutoring, Organizing Community events

Personal Interests/Hobbies: Cricket Analysis, Sports, Physical and Mental training, History Enthusiast, Arts, Photography