

Samara Simha Reddy Arutla

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EDUCATION

Vasavi College of Engineering

2018-2022

*Bachelor of Engineering, Electronics and Communication Engineering,
Hyderabad, India*

GPA: 7.90/10

Intermediate Education – MPC (Mathematics, Physics, Chemistry)

Apr 2018

Narayana Junior College, Hyderabad, India.

MARKS: 976/1000

Secondary Education

Apr 2016

Narayana Concept School, Meerpet, India

GPA: 8.5/10

PROFESSIONAL EXPERIENCE

RSM USI

Jul 2022-present

CATT Tech Delivery Associate 1

Hyderabad, India

Project: Corporate Sight

- CorporateSight is RSM's innovative, cloud-based technology solution that provides corporate offices with a comprehensive view to critical data and analytics across both business and personal enterprise structures.
- Worked with both front-end and back-end technologies like .NET, React, SQL, CSS, JavaScript, C#.

ENGINEERING PROJECTS

Driver Drowsiness Detection

Jan-May 2022

- Machine learning model designed to detect the sleep levels of the person driving a vehicle to improve safety norms.
- This model uses convolutional neural networks (CNNs) and facial landmark detection as outlying concepts, and it is integrated with a web camera to capture and analyze facial expressions and eye movements of the driver
- Used Tensor flow, Python, Keras and transfer learning for implementation.

Air Pollution Monitoring System

Jan-May 2021

- IOT based device which will collect the quantity of different gases present in the environment and calculates the AQI which indicates the level of pollution in the ambient atmosphere.
- Used different gas sensors like PM2.5, PM10, O3 etc. sensors to get the real-time values and other components used are Arduino UNO, Wi-Fi module ESP8266.
- Arduino is coded in embedded C language to analyze and calculate the accurate AQI value and to send out a warning when it crosses the permissible level as per the regulatory norms.

Reader for Blind

Aug-Dec 2020

- This device will take a snapshot of a paper and reads the text present in that paper loudly. It is very helpful device for blind people while reading.
- This project has been built on Raspberry Pi processor board. It will control the peripherals like camera, speaker, and acts as an interface between the system and the user.
- Python 3 is used for implementation.

Online Bookstore

Oct-Dec 2019

- Implemented a web app that comprises of various functionalities and help a user to view and purchase book online.
- Used HTML and CSS to design the application, JDBC ODBC as the database and Java for coding.

SKILLS AND CERTIFICATIONS

Skills: Python, .NET, C, C++, C#, JavaScript, React.js, SQL, HTML, CSS, Data Structures.

Certifications:

- Microsoft Azure 204 – Microsoft, March 2023
- NPTEL – Basic Electronic Circuits, March 2019

ORGANIZATIONS AND ACTIVITIES

- Council Member, NSS – National Service Scheme, Vasavi College of Engineering, Dec 2018-Jul 2022
- IEEE member.