

BALAYALA NIHARIKA

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OBJECTIVE

- Developing front-end functionality using HTML, CSS, and JavaScript.
- Creating the layout and structure of websites using HTML and CSS.
- Building front-end components using HTML, CSS, and JavaScript.
- Working with back-end teams to ensure smooth integration of the client-side with the server-side.
- Ensuring that web applications are scalable and maintainable by writing clean HTML code.
- Applying database management techniques using relational (e.g., MS SQL) databases.
- Developing and maintaining server-side code using Python (with frameworks like Django).
- Familiarity with the Power BI Desktop, Power Query, and Power BI Service.
- Ability to write basic DAX expressions and SQL queries to extract and manipulate data.
- Designing and implementing Power BI reports and dashboards, focusing on data presentation and user interface.
- Using Power Query to clean and transform data for analysis.
- Getting familiar with Tableau's features and connecting Tableau to various data sources (e.g., databases, Excel, cloud data).
- Creating basic visualizations like bar charts, line charts, pie charts, scatter chart, etc.

EDUCATION

Bachelor of Engineering

Electronics and Communication Engineering - MVSREC, Osmania University

2020 - 2024

Intermediate

SR Junior College

2018 - 2020

SSC

Jawahar Navodaya Vidyalaya, Vattam

2017 - 2018

SKILLS

Programming Languages : PYTHON, HTML, CSS, C

Libraries / Frameworks : JAVASCRIPT, BOOTSTRAP, JQUERY, DJANGO

Tools / Platform : VS CODE, THONNY

Databases : MSSQL, T-SQL

Data Visualization : POWER BI, TABLEAU

Soft Skills : Problem solving, Team work, Time management, Leadership, Critical thinking, Responsibility

PROJECTS

• Bluetooth Controlled Car Using Arduino

The "Bluetooth Controlled Car Using Arduino" project involves building a remote-controlled car that is operated via a smartphone or tablet using Bluetooth. An Arduino microcontroller is used to receive commands from a Bluetooth module, which controls the car's motors for movements such as forward, backward, and turning. The system is powered by a battery pack, and the smartphone communicates with the car via a Bluetooth controller app. This project combines electronics and programming to create a hands-on learning experience in wireless control systems.

• Voice Controlled Robotic Arm Using ESP32 and Smartphone

The "Voice Controlled Robotic Arm Using ESP32 and Smartphone" project enables users to control a robotic arm through voice commands. Using an ESP32 microcontroller for processing and communication, the system receives commands from a smartphone via Wi-Fi or Bluetooth. The smartphone's voice recognition interprets spoken instructions and sends them to the ESP32, which then directs the robotic arm's movements accordingly. This integration of voice control with robotic technology allows for intuitive and hands-free operation of the robotic arm.

CERTIFICATIONS

- AICTE Virtual Internship Program in Networking 2023 - CISCO NETWORKING ACADEMY
- Python Full Stack Web Development - PRR TECHNOLOGIES
- Completion of Arduino Training - IIT BOMBAY
- Completion of eSim Training - IIT BOMBAY
- Completion of Scilab Training - IIT BOMBAY
- Completed the E-Learning Course of Power BI

WORKSHOPS

- A Two Day Hands-On Experience Workshop on Introduction to 3-D Printing/Additive Manufacturing.

PUBLICATIONS

- For the paper titled - Voice Controlled Robotic Arm Using ESP32 And Smartphone.
Published in International Journal of Engineering Technology and Management Sciences (IJETMS).
Vol-08 Issue-03 May June 2024.
DOI: 10.46647/jetms.2024.108103.054 ISSN: 2581-4621

EXTRA-CURRICULAR ACTIVITIES

- Participated in Hardware Project Expo 2023 organized by IETE,HYD.
- As a Student Coordinator for Technovanza 2020 Event.
- Participated in OU Inter College Chess Tournament.
- Participated in OU Inter College Tournament for Women Kho-Kho.
- Participated in Mock Interview Organized by Technovanza.

DECLARATION

I do here by declare that above mentioned information and facts are true to the best of my knowledge.

Place: Hyderabad

Niharika