

KARLAPATI AALOKHYA

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EDUCATION

B-Tech in Computer Science and Engineering - C.G.P.A: 8.94 2023 – 2026
SR University
Diploma - Percentage: 94.24% 2019 – 2022
VMR Polytechnic

COURSEWORK

Object Oriented Programming Through Python, Operating Systems, Computer Networks, Design and Analysis of Algorithms, AIML, Software Engineering, Data Mining.

PROJECTS

Mainflow Serivices (MERN STACK)

- Developed an e-commerce platform for selling sanitary products and promoting menstrual health, impacting the well-being of over **200 users**.
- Integrated features for providing safety measures and hygiene suggestions, enhancing user experience and product engagement.
- Discussed site and app requirements with clients to produce actionable development plans.

Diabetes Prediction (ML Algorithm - k-NN and SVM)

- Created a model using the k-NN and SVM algorithm to predict Diabetes, achieving **91% accuracy**. Processed and analyzed medical data to find key features, improving the model's accuracy and aiding in early diagnosis.

Mouse Pointer Control using Eye Movements (SQL)

- Developed a system to control the mouse pointer using eye movements, achieving **60%** accuracy. Enhanced accessibility for users with mobility challenges, enabling hands-free navigation.

Real Time Epilepsy Detection (ML Algorithm - SNN)

- Developed an epilepsy detection model using Spiking Neural Networks (SNNs), achieving **90%** accuracy. Processed EEG signals from multiple channels, converting them into spikes for analysis and detect seizures effectively.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, HTML, CSS, JavaScript, SQL

Tools and Technologies: GitHub, Power BI

Frameworks: MongoDB, Express.js, React.js, Node.js, Bootstrap, MySQL

ACHIEVEMENTS

- "Winner of the internal hackathon at Smart India Hackathon for developing an innovative solution using **Piezoelectric Tiles for Sustainable Energy Generation**, resulting in **20 percent reduction in energy costs and promoting eco-friendly infrastructure by harnessing renewable energy from foot traffic**.
- Certified by **Cisco Networking Academy in Data Analytics Essentials**, highlighting a strong understanding of data analysis and visualization. [Verify](#)
- Certified by **Cisco Networking Academy in Endpoint Security**, highlighting a strong understanding of Linux and Network Security Infrastructure. [Verify](#)
- Achieved certification in **introduction to cybersecurity from NPTEL Online Platform**, validating skills in security and threat management. [Verify](#)
- Achieved certification in **Microsoft Azure Fundamentals: Describe cloud concepts**, validating skills in Microsoft Azure [Verify](#)

POSITIONS OF RESPONSIBILITY

Treasurer of Data Science Club, SR University - Managed club finances and budget allocation, supporting data science workshops and events to foster peer learning and skill development.

Secretary of GitHub Community, SR University - Spearheaded community initiatives, organized workshops, and facilitated collaborative coding events, fostering peer learning and open-source contributions within the university.

DECLARATION

I hereby declare that the above given information is true to the best of my knowledge.