VENKATA SESHA SAINATH BIRUDURAJU

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OBJECTIVE

Dedicated Computer Science Engineering graduate with hands-on experience in building interactive web experiences and a solid understanding of machine learning principles. Seeking a position to apply my skills in both areas while continuously expanding my knowledge in cloud computing and prompt engineering.

EDUCATION

Bachelor of Technology in Computer Science and Engineering 2022 - Present
Veltech University, Chennai. CGPA : 7.6

BIEAP, Class XII 2022
Narayana JR college, Nellore, Andhra pradesh, 88.4%

CBSE, Class X 2020
Avenues English Medium High School, Nellore, Andhra Pradesh, 63.4%

TECHNICAL SKILLS

Programming Languages: Python, C, Java
Web Technologies: HTML, CSS, JavaScript, PHP, MySQL
Backend & Runtime: Node.js
AI & Security: Machine Learning, AI-Powered Systems, Intrusion Detection Systems
Development Tools: Git, GitHub, Visual Studio Code.

SOFT SKILLS

Soft Skills: Problem-solving, Quick learner, Teamwork, Clear communication

PROJECTS

IMPROVING AMERICAN ACCENT USING WEB DEVELOPMENT **Live Project Link**

- Designed and developed a responsive web-based platform to help users improve American English pronunciation through phonetics-based learning.
- Implemented interactive modules including phonetics practice, lip-sync visualization, and gamified pronunciation activities using JavaScript.
- Built a client-side authentication system using browser storage to manage user login and session flow.
- Integrated Netlify Forms to collect user feedback with client-side form handling and success-state messaging.

AI-POWERED INTRUSION DETECTION SYSTEM FOR ELECTRIC VEHICLES **GitHub Repository**

- Designed and implemented an **AI-based Intrusion Detection System (IDS)** to monitor in-vehicle network traffic in electric vehicles.
- Built a **Flask-based backend API** integrated with a machine learning model to detect anomalous network behavior using packet-level features.
- Deployed the backend on **cloud infrastructure (Render)** for real-time inference and API accessibility.
- Developed and hosted an interactive **frontend dashboard** using HTML, CSS, and JavaScript to visualize intrusion detection results.