Sai siva reddy Maddula

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EDUCATION

Auburn University at Montgomery,   08/2022 – 05/2024
Master's in Computer Science   Montgomery, United States
- Graduated with a CGPA of 3.83.
- Developed and designed websites using HTML, CSS, JavaScript, and React focusing on responsive and user-friendly interfaces.
- Worked on neural network projects within machine learning, applying advanced algorithms to solve complex problems.
- Ran robust and efficient C++, and Python (OOPS) and Attended lab sessions to gain practical knowledge for emphasizing best practices and maintainability.
- Gained Knowledge in data structures and algorithms to efficiently organize and manage a large amount of data.
- Implemented machine learning code in Google Co-lab, enhancing data analysis and model training efficiency.
- Possess strong SQL skills for querying and managing databases.
- Completed projects on 3D Modeling Using the Blender Application.
- Experienced with NFA, DFA, and Regular Expressions.
- Developed codes in Python code for supervised Learning and Unsupervised Learning Projects.

Vasireddy Venkatadri Institute of Technology, *B.Tech in EEE*   06/2018 – 06/2022 | Guntur, India
- Graduated with a CGPA of 3.41
- Project Work: Developed a fire-flame sensor project capable of detecting UV and IR signals from flames. Components included a UV-sensitive photocell, optical filter, lens, signal processing circuitry, and Python-based code integrated into an Arduino microcontroller.
- Mathematical Skills: Acquired proficiency in derivatives, integrations, calculus, linear algebra, statistics, and discrete mathematics.
- Physics and Mechanics: Worked extensively on thermodynamics, electromagnetism, quantum mechanics, optics, and wave mechanics, gaining practical knowledge through laboratory experiments.
- Chemistry Fundamentals: Studied atomic structure, the periodic table, chemical bonding, stoichiometry, chemical reactions, states of matter, gas laws, and molecular geometry, complemented by hands-on experience in laboratory work.
- mathematical models used in designing digital networks.
- Advanced Topics: Familiar with neural networks, fuzzy logic, and programming for microprocessors and microcontrollers.
- Programming Skills: Acquired strong computer programming and C programming knowledge, with applications in various engineering and technical projects.

SKILLS

Python, C++, HTML, CSS, JavaScript, Machine Learning, Numpy, React.js, Linear Algebra, 3D Modeling, DSA, Computer Networks, Pandas, DFA & NFA, Colab, Blender, PostgreSql, TensorFlow, Team work, Github pages, UI, Fast API and Google forms.

PERSONAL PORTFOLIO DEVELOPMENT

Developed a dynamic and responsive personal portfolio website using HTML, CSS, and JavaScript. The website showcases a clean and modern design, highlighting my skills, projects, and achievements. Utilized HTML for structure, CSS for styling, and JavaScript for interactivity, including smooth animations, form validation, and dynamic content display. Ensured cross-browser compatibility and mobile responsiveness for a seamless user experience. The portfolio serves as both a professional showcase and a testament to my proficiency in front-end web development, providing potential employers or clients with an interactive and user-friendly platform to explore my work.

COURSES

Machine Leanring Crash Course, *Google for developers*
- Linear & Logisitc regression.
- Classification.
- Numerical & Categorical data.
- Datasets, generalization, and overfitting.
- Neural Networks.
- Embeddings.
- LLM.
- Production ML systems.
- Fairness.

C++, Python, numpy, HTML, CSS , Js and React.js, *W3 schools*

PROJECTS

o1 Job Aid, *Automatic Job Applicaion Filler*   12/2024 – present
- This project implements a job application autofill solution using a FastAPI backend, a React-based main web app, and a Chrome extension.
- Users authenticate via either standard credentials or Google OAuth.
- The backend validates credentials and issues JWT access and refresh tokens, using secure HTTP-only cookies instead of storing tokens in local storage.
- API client interceptors automatically refresh tokens when needed.
- The Chrome extension communicates with the main app and backend via secure messaging to retrieve user data and uses the tokens to autofill job application forms on various domains.
- This unified, secure, and production-ready approach ensures seamless single sign-on and token management.