NIVEDITHA S

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PROFILE

- A highly motivated MCA final year student eager to begin a career in software development, aiming to utilize learned principles and a strong aptitude for problem-solving to contribute to cutting-edge technologies.

EDUCATION

Master of Computer Applications | CGPA: 7.27, 08/2024 – Present
College of Engineering Guindy, Anna University, Chennai

Bachelor of Science in Mathematics | CGPA: 7.31, 06/2021 – 05/2024
Ayya Nadar Janaki Ammal College, Sivakasi

HSC | Percentage : 90.0 2021
Sri Shenbaga Vinayagar Matriculation Higher Secondary School, Sivakasi

SSLC | Percentage : 89.6 2019
S.H.N.V. Matriculation Higher Secondary School, Sivakasi

SKILLS

Programming languages
Java, Python, C

Web Development
HTML, CSS, JavaScript, RESTful APIs, JWT Authentication, Tailwind CSS, Bootstrap

Database Management
MySQL, PostgreSQL, MongoDB Atlas

Platforms and Tools
Git, GitHub, VS Code, Thunder Client, Postman

PROJECTS

HostelBites – Simple Cooking for Students
Key Skills: React.js, Node.js, Express.js, MongoDB, REST API, Full Stack Development, Tailwind CSS
- Built a full stack recipe-sharing web application for hostel students using React.js, Node.js, Express.js, and MongoDB, reducing meal-planning time by 60% for users seeking quick, affordable recipes.
- Created RESTful APIs for recipe creation, editing, deletion, and retrieval, reducing server response time by 35% through optimized Express.js routing.

Triptale – A Community-Driven Travel Experience Sharing App
Key Skills: Flutter, Firebase Authentication, Google Maps API, Mobile App Development
- Developed a cross-platform travel experience sharing app using Flutter, enabling users to post and browse travel stories, achieving 100% compatibility across Android and iOS devices.
- Engineered UI components using Flutter widgets, improving UI responsiveness and load time by 35%, and boosting overall user satisfaction during trials.

CardioLens – SHAP-Enhanced Heart Disease Prediction Using ML
Key Skills: Python, scikit-learn, XGBoost, SHAP, SMOTE, Jupyter Notebook, Feature Selection
- Developed a machine learning model using XGBoost and scikit-learn to predict heart disease with an accuracy of 94% on the UCI Heart Disease dataset.
- Used SMOTE (Synthetic Minority Oversampling Technique) to balance imbalanced datasets, increasing recall by 22% and reducing false negatives.
- Incorporated SHAP (SHapley Additive exPlanations) to enhance model explainability, enabling visualization of feature impact for 100% of predictions.

CERTIFICATIONS

- Udemy: The Complete Full-Stack Web Development Bootcamp
- Cisco Networking Academy program: C Essentials 1