ARYAN SINGH

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PROFILE SUMMARY

I am an aspiring computer science engineering student passionate about Software Development, Artificial Intelligence and Machine Learning. I excel in designing and implementing efficient architectures, creating automated solutions, and leveraging software testing to ensure quality. I possess valuable teamwork, problem-solving, and communication skills and am eager to make meaningful contributions to the field of computer science and engineering through real-world projects and collaboration.

EDUCATION

2022 - 2026

VIT UNIVERSITY

- Bachelors of Technology in Computer Science

LALAJI MEMORIAL INTERNATIONAL SCHOOL

- Council for Indian School Certificate Examinations

SOFT SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

HARD SKILLS

- HTML,CSS,Python,Java,SQL
- Software Engineering (Agile model, Waterfall model, Software Testing)

COURSES & CERTIFICATES

- Bits and Bytes of Computer
- Networking **(Google)**
- Cloud Computing **(NPTEL)**
- Cyber security**(IBM-ongoing)**
- DSA problem solver**(FACEPREP-ongoing)**
- MATLAB SIMULINK

PROJECTS

a.E-commerce site

- Developed a Fully Functional eCommerce Website: Built an interactive eCommerce site from scratch using HTML, CSS, and JavaScript.
- Responsive Design: Implemented responsive web design techniques with CSS to ensure optimal user experience across devices (desktops, tablets, and mobile phones).
- Dynamic Product Interactivity: Utilized JavaScript to enable interactive features such as adding/removing products from the cart, updating cart totals, and creating a seamless shopping experience.

b.Super Store Management System

- Created a dynamic and interactive superstore eCommerce website using HTML, CSS, and JavaScript for the frontend, with JSP for server-side rendering and handling user requests.
- Integrated SQL for database management to store and retrieve product details, user information, order history, and inventory management, ensuring data consistency and smooth transactions.
- Implemented user authentication, product search, shopping cart functionality, and order processing, providing a seamless and personalised shopping experience.

c.Coronary Calcium Detection and Scoring

2024 - PRESENT

- Developed a Machine Learning Model for Coronary Calcium Detection: Built and trained a machine learning model using Python and libraries such as Scikit-learn and TensorFlow to detect coronary artery calcification from medical imaging data, improving diagnostic accuracy.
- Implemented Coronary Calcium Scoring: Applied Agatston scoring method to quantify calcium deposits in the coronary arteries, using image processing techniques like OpenCV and machine learning algorithms to provide predictive insights into cardiovascular health.
- Data Preprocessing and Model Evaluation: Preprocessed medical imaging data (CT scans), handled missing data, and optimized model performance through techniques such as cross-validation, hyperparameter tuning, and evaluation metrics (e.g., accuracy, ROC-AUC).