Fayaz Ahmad S A

fayaz-portfolio.vercel.app | Full Stack Developer

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Education

Francis Xavier Engineering College	April 2025
Computer Science Engineering (CGPA: 8.3)	*Tirunelveli, Tamil Nadu*

- **Relevant Coursework:** Object Oriented Programming System, Database Management System, Artificial Intelligence, Machine Learning.

Projects

Smart Defect Detection System | *Python, TensorFlow/Keras, Streamlit, VGG16*

https://github.com/Fay4z/defect-detection-system/

- Developed a deep learning model using VGG16 with transfer learning to classify defected vs. non-defected industrial equipment images, achieving 90% accuracy.
- Enhanced model performance by applying fine-tuning and data augmentation, improving generalization and robustness on diverse industrial images.
- Built a Streamlit app allowing users to upload images or use a live webcam for real-time defect detection.

Task Manager Web App | *React.js, Tailwind CSS, Node.js, Express.js, MongoDB*

https://taskpro-manager.vercel.app/

- A complete Task Management application created with the MERN stack that is intended to control and monitor tasks.
- Leveraged React Context for efficient state management, ensuring smooth and responsive user interactions.
- Implemented filtering and updating of tasks based on status and priority to improve task organization. Custom authentication using JSON Web Token was also incorporated.

Experience

EY	Feb 2024 – April 2024
Full Stack Developer	

- Gained hands-on experience with Python, Django, and SQLite, enhancing my skills in backend development and database management.
- Designed and developed car rental management system, focusing on user-friendly interface for seamless user experience.
- Worked on essential features such as user authentication, booking management, and inventory tracking, significantly improving operational efficiency and accuracy.

DigiSailor	June 2023
Front-End Developer	

- Acquired skills in React, React Context, and React Hooks, enhancing my ability to build dynamic and responsive web applications.
- Learned efficient state management solutions using React Context, ensuring seamless data flow and improved performance.
- Developed reusable components and leveraged React Hooks to optimize performance and improve user interactions.

Technical Skills

Front-End: HTML, CSS, Tailwind CSS, JavaScript, React.js.
Back-End: Node.js, Express.js, Django.
Database: MongoDB, SQL.
Languages: C, C++, Python.
Libraries and Frameworks: TensorFlow, scikit-learn, NumPy, Pandas.
Version Control: Git, Github.