AGNES STEFFI A

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OBJECTIVE

Curious and motivated software developer with expertise in C++, Java, full-stack web and mobile development, and databases. Passionate about building high-performance, scalable applications that solve real-world problems. Experienced in designing efficient solutions, solving complex technical challenges, and continuously learning to refine code. Collaborative, detail-oriented, and committed to writing clean, maintainable, future-ready software.

TECHNICAL SKILLS

Programming languages: C++, Java, Python.

Web Development: HTML, CSS, JavaScript.

Frameworks: Flutter, Dart, React.

Database & data handling: SQL, MySQL, MongoDB.

Tools & Dev Environment: Git, Power BI, Docker, Postman, VS Code, PyCharm.

Concepts: Object-Oriented Programming, Data Structures, Machine Learning.

EDUCATION

B.E. – Computer Science and Engineering | 2021 - 2025
Saranathan College of Engineering, Tiruchirappalli, Tamil Nadu, India
CGPA: 8.76

HSC – 12th Grade | 2021
St. James Matriculation Higher Secondary School, Tiruchirappalli, Tamil Nadu, India
Percentage: 93.4

SSLC – 10th Grade | 2019
Seventh Day Adventist Matriculation High School, Tiruchirappalli, Tamil Nadu, India
Percentage: 92.4

PORTFOLIO

https://stef-portfolio-sigma.vercel.app/

PROJECTS

Transport Management Web App – ***React.js, Node.js, MongoDB, TailwindCSS***

- Developed a full-stack web application for transport bookings, supporting user authentication, admin dashboards, and real-time updates.
- Designed a responsive, mobile-first UI using TailwindCSS and optimized database queries for performance and scalability.
- Implemented RESTful APIs with Node.js and MongoDB for efficient data management.
- Ensured secure user data handling and role-based access control, improving operational reliability.

Driver Fatigue Detection System – ***YOLOv11, OpenCV, Python***

- Built a real-time driver monitoring system using YOLOv11 for facial and eye recognition.
- Integrated alert mechanisms such as buzzers and emergency notifications to prevent accidents.
- Achieved ~90% accuracy in detecting driver fatigue and distraction.
- Optimized computer vision pipelines using OpenCV for low-latency processing.

Traffic Sign Classifier – ***Python, CNN, scikit-learn, OpenCV***

- Developed a Convolutional Neural Network (CNN) to classify traffic signs using the German Traffic Signs dataset.
- Applied image preprocessing, data augmentation, and hyperparameter optimization to improve model accuracy.
- Achieved high classification accuracy and evaluated performance with standard metrics (precision, recall, F1-score).
- Leveraged OpenCV for image transformations and feature extraction.

World Time App – ***Flutter, Dart***

- Developed a cross-platform mobile application displaying global time zones with real-time updates.
- Implemented adaptive day/night wallpapers based on local time for enhanced UX.
- Designed a responsive, intuitive interface supporting multiple device screen sizes.
- Integrated API calls to fetch accurate timezone and daylight information.

CERTIFICATIONS

- Data Structures & Algorithms [Inlustro Learning Pvt. Ltd. | NOV-2022]
- API Test Automation with Postman [TESTAUTOMATIONU.COM | AUG-2025]
- Building Real-life AI-based Projects [Inlustro Learning Pvt. Ltd. | DEC-2023]

LANGUAGES KNOWN

- English - Fluent
- Tamil - Native