Sharvika S

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Summary

Aspiring engineering student with strong fundamentals in Data Structures, Algorithms and Object-Oriented Programming. Skilled in web development, deep learning and digital systems through real-world projects and internships at Infosys Springboard and Maven Silicon. Driven to develop efficient, scalable, and user-centric software solutions.

Education

Vellore Institute of Technology *2022 - Present*
B.Tech in Electronics and Communication Engineering **CGPA: 9.22**

KSR Akshara Academy *2020 - 2022*
Higher Secondary Education **Percentage-92%**

KSR Akshara Academy *2018 - 2020*
Secondary Education **Percentage-95.8%**

Technical Skills

Programming Languages: Java, SQL, HTML, CSS, Verilog HDL, Embedded C, MATLAB.

Frameworks & Tools: Google Colab, VS Code, MySQL, ModelSim, Keil,Quartus Prime.

Academic Proficiency: Data Structures and Algorithms (DSA), OOP, Artificial intelligence, Digital Systems.

Projects

EnerTrack-Real-time IoT Energy Monitoring with ESP32 *July 2025 - Present*

- Developing a real-time IoT system using ESP32 to monitor voltage, current, and power with OLED display and automatic relay control.
- Integrating Firebase for live data logging and remote monitoring, enabling future ML-based energy optimization.

BrainVision - CNN -Based Brain Tumor Classification with Grad-CAM *Mar 2025 - May 2025*

- Built a TensorFlow/Keras CNN achieving 97%+ accuracy for classifying brain MRI images into four tumor types, with data augmentation and robust evaluation metrics.
- Integrated Grad-CAM for interpretable predictions by highlighting tumor regions, and applied data augmentation with model evaluation using confusion matrix, precision, recall, and F1-score.

AI-PlantGuard - AI- Powered Web Application for Plant Disease Detection *Nov 2024 - Jan 2025*

- Developed a CNN model using TensorFlow/Keras on Google Colab for real-time plant disease classification using a dataset of 80K+ images, achieving 89% accuracy through data augmentation techniques.
- Integrated the trained model into a Flask API with OpenCV-based preprocessing and deployed a responsive HTML/CSS frontend, optimizing image segmentation and improving inference speed.

Experience

AIML Project Intern *Remote*
Infosys Springboard *Nov 2024 - Jan 2025*

- Designed and implemented a deep learning-based plant disease classification system using CNNs in TensorFlow, achieving high accuracy on real-world image datasets.
- Trained and thoroughly evaluated deep learning models in Google Colab with GPU acceleration, integrating OpenCV for advanced image preprocessing techniques.
- Developed a functional web application using Flask (backend) and HTML/CSS (frontend) for seamless real-time user interaction and accurate disease detection.

VLSI Design Intern *Remote*
Maven Silicon *Jun 2024 - Jul 2024*

- Gained hands-on experience in digital VLSI design, focusing on RTL coding, synthesis, and verification using Verilog HDL and industry-standard EDA tools.
- Designed and implemented the SPI (Serial Peripheral Interface) protocol for master-slave communication, followed by functional simulation and verification to ensure performance and correctness.