

kaviya sivakumar

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Education

Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College <i>B.E. Computer Science and Engineering (AI & ML) - Honors</i>	2022 - 2026 – CGPA: 8.54 / 10
Alpha Matriculation Higher Secondary School <i>Higher Secondary Certificate (HSC)</i>	2021 - 2022 – Percentage: 81%
Alpha Matriculation Higher Secondary School <i>Secondary School Leaving Certificate (SSLC)</i>	2019 - 2020 – Percentage: 68.8%

Experience

Java Intern – DLK Career Development <i>Intern</i>	Apr 2023 Chennai, India
<ul style="list-style-type: none">• Gained hands-on experience with Core Java, JDBC, and Servlet-based mini applications.• Applied OOP concepts to solve structured tasks in a project-based environment.	
Mobile App Development Intern – NSIC (Govt. of India) <i>Intern</i>	Dec 2024 Chennai, India
<ul style="list-style-type: none">• Trained in mobile UI/UX development using Kotlin and XML. Implemented mock industry workflows and use cases.• Built functional prototypes simulating common features in Android applications.	
Front-End Software Engineering Virtual Experience – Skyscanner (Forage) <i>Virtual Intern</i>	Nov 2025 Remote
<ul style="list-style-type: none">• Completed a job simulation as a front-end engineer, building a web application using React.• Developed a page for selecting travel dates using Skyscanner's open-source Backpack React library.	

Web Development Projects

Responsive Business Website (Freelance Client Project) HTML, CSS, JavaScript, Bootstrap, Tailwind CSS	Sept 2025
<ul style="list-style-type: none">• Built a fully responsive business website with modern UI/UX and cross-browser compatibility.• Implemented onboarding forms with real-time validation and JSON-based data handling.	
QR Code Generator Web App React.js, HTML, CSS, JavaScript, qrcode.react	Oct 2025
<ul style="list-style-type: none">• Developed a web app to generate QR codes in real-time from user input.• Implemented responsive UI using modular React components and integrated the qrcode.react library.	
Task Management App React.js, Context API, Bootstrap, REST API	June 2025
<ul style="list-style-type: none">• Built a CRUD task manager with drag-and-drop functionality and persistent storage via REST API.• Applied Context API for global state management and Bootstrap for responsive design.	
Weather Forecast Web App React.js, OpenWeatherMap API, CSS, React Hooks	May 2025
<ul style="list-style-type: none">• Developed a weather app fetching real-time data based on location or city search.• Managed dynamic content using React Hooks and designed a clean, responsive UI.	

UI/UX & Figma Projects

Interactive UI Animation Prototype Figma, UI/UX, Smart Animate, Prototyping, Design Systems	Aug 2025
<ul style="list-style-type: none">• Designed animated UI prototypes demonstrating smooth transitions and micro-interactions.• Showcased visual storytelling and component structuring for improved user experience.	
Italian Food Ordering App UI Figma, UI/UX, Smart Animate, Prototyping, Design Systems	Sept 2025
<ul style="list-style-type: none">• Created a UI prototype emphasizing smooth animations and micro-interactions.• Applied strong UI/UX principles to structure components and enhance usability.	

Machine Learning / AI Projects

- Demand Forecasting for Supermarkets** | *Python, Pandas, NumPy, Matplotlib, Seaborn* Apr 2023
- Developed and evaluated ARIMA and SARIMAX models in Google Colab to forecast product demand with 90% accuracy.
 - Performed data preprocessing, time series decomposition, and residual diagnostics for robust forecasting.
 - Published in IEEE Xplore, presenting findings on the real-world impact of statistical forecasting in retail.
- Plant Nutrient Deficiency Detection Using CNN** | *TensorFlow, Keras, OpenCV, HTML, CSS, JavaScript* Oct 2024
- Engineered a CNN to classify nitrogen, phosphorus, and potassium deficiencies in rice leaf images.
 - Applied data augmentation techniques like rotation, shifting, and zooming to improve model generalization.
 - Deployed a real-time web interface enabling farmers to receive predictions and fertilizer recommendations.
- Custom Deep Learning Model for Emotion Detection** | *TensorFlow, Keras, OpenCV, HTML, CSS, JavaScript* Feb 2025
- Developed and trained a CNN model to detect emotions from facial images using data preprocessing and augmentation techniques.
 - Integrated the model into a web-based GUI allowing users to upload images for real-time emotion prediction.

Technical Skills

- **Programming Languages:** Python, Java, C, Kotlin, SQL, JavaScript, HTML, CSS
- **Data Science & ML:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, OpenCV, ARIMA, SARIMAX
- **Web Development:** React.js, Bootstrap, Tailwind CSS, REST API, Context API, qrcode.react
- **Mobile App Development:** Android Studio, XML UI, MediaPlayer
- **UI/UX & Prototyping:** Figma, Smart Animate, Prototyping, Design Systems
- **Data Visualization:** Power BI, Tableau, Excel
- **Platforms & Tools:** Git, GitHub, VS Code, Jupyter, Google Colab, Android Studio

Certifications & Achievements

- Completed **Information Architecture in UI/UX Design** from **LearnTube by CareerNinja**, under UI Designer **Sharodiya Dutta** – focused on wireframing, prototyping, and user-centric design (Dec 2023).
- Finalist in **Entropy Hackathon** at VIT College, securing a spot in the top 10 teams among highly competitive participants.
- Participated in **CodeCraft Hackathon** at Sairam Engineering College, showcasing problem-solving and teamwork skills in a dynamic environment.
- Completed **MATLAB Self-Paced Training Course**, enhancing skills in numerical computing and data analysis.
- Completed **The Joy of Computing Using Python** course from NPTEL, enhancing foundational programming skills.
- Completed **Microsoft Power BI for Business Analytics and Intelligence** course on Udemy, gaining skills in data visualization and business analytics.