JEYA MURUGAN G

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Education

Sri Ramakrishna Engineering College **Nov. 2021 – May 2025**
Bachelor of Engineering in Computer Science and Engineering *Coimbatore, Tamil Nadu*

Lions Matric School **June 2019 – May 2021**
Mathematics - Biology *Paramakudi, Tamil Nadu*

Technical Skills

- **Programming Languages:** Java, Python
- **Machine Learning & Deep Learning:** Supervised & Unsupervised Learning Algorithms (Regression, Classification)
- **Web Technologies:** HTML, CSS, JSP (beginner)
- **Databases:** MySQL, DBMS
- **Software Fundamentals :** SDLC, OOPS, TCP/IP, OS, Agile Basics
- **Version Control & Collaboration Tools:** Git, GitHub, Jira
- **Data Science:** Data Preprocessing, Feature Engineering, Data Visualization, Exploratory Data Analysis (EDA)
- **Soft Skills:** Communication, Team Collaboration, Problem Solving, Analytical Thinking

Experience

Software Developer
Project – Based Internship *Coimbatore, Tamil Nadu*

- Developed a Python-based Contact Book application using dictionary data structures and file handling, enabling users to store, search, update, and delete contacts efficiently; also implemented CSV export and import functionality for persistent data storage.
- Built a Machine Learning model for House Price Prediction using Linear Regression, achieving 80% accuracy by applying data cleaning, feature selection, and preprocessing techniques on real-world housing datasets.
- Created a Car Price Prediction system using Random Forest Regressor, improving model performance by 35% through hyperparameter tuning, categorical encoding, and training on cleaned automotive data.

Projects

Tomato Disease Detection Using AI/ML **June 2023 – May 2024**

- Developed an AI-based object detection system with YOLOv5 and Python to identify tomato plant diseases with 80% accuracy.
- Integrated the solution into a Streamlit web application for real-time predictions and visualization.
- Followed software engineering best practices (version control, debugging, and modular coding) for reliable system performance.
- Tools & Technologies: Python, YOLOv5, OpenCV, Streamlit, SQL, Microsoft Azure, Git, VS Code

AI-Powered Chatbot for Medical Usage **June 2024 – May 2025**

- Designed and developed a chatbot application using Python, CNN, and OpenCV to analyze medical X-rays for disease detection with accuracy of 85%.
- Implemented a SQL database to store and manage patient queries and predictions, ensuring data consistency and retrieval efficiency.
- Applied SDLC phases from design to testing, ensuring scalability and maintainability of the solution.
- Tools & Technologies: Python, CNN, OpenCV, Flask, Streamlit, SQL, Cloud, Git

Certification & Courses

- Microsoft Azure Fundamentals (AZ-900) – Cloud concepts & Azure services
- Java Programming – Infosys Springboard (OOPS & Application Development)
- Business English Certification – Cambridge English (Entry Level, 2021)
- CSS3 & OpenCV 4 – Infosys Springboard (Web & Computer Vision Basics)