

# VIDHYALAKSHMI BALAJI

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## EDUCATION

SRM Easwari Engineering College, Anna University, Chennai	CGPA – 8.95
Bachelor Of Technology in Computer Science specialization AI & DS	June, 2022 – May, 2026
Higher Secondary Certificate	Percentage – 95.2%
Modern Senior Secondary School, CBSE, Chennai	Apr 2021 – Mar, 2022
Secondary School Certificate (SSC)	Percentage – 96%
Modern Senior Secondary School, CBSE, Chennai	Apr 2021 – Mar, 2022

## EXPERIENCE

ML Intern	July 2024 – Aug 2024
National Small Industries Corporation	Chennai, India

### Deep Leaf Insight: Cutting-Edge Deep Learning for Accurate Disease Detection

- Developed a deep learning model to classify potato plant diseases as **early blight** or **late blight** with 92% accuracy.
- Built an application that allows farmers to upload plant images for real-time disease detection and diagnosis.
- Implemented a robust backend using **FastAPI** and integrated **TensorFlow** for model deployment.
- Enhanced model performance using **data augmentation** techniques to handle diverse image inputs.

## PROJECTS

### Resort Search App | MERN, Google Maps API, Vercel

Jan 2025 – Feb 2025

- Developed a MERN stack resort search & booking platform with real-time search and filtering.
- Integrated Google Maps API for interactive resort location display.
- Built a Node.js & Express backend with MongoDB for efficient data management.
- Deployed the frontend on Vercel and backend on Render for seamless performance.

### Flipkart Product Review Analysis | Machine Learning, AWS EC2

Aug 2024 – Sept 2024

- Deployed a sentiment classification model on AWS EC2 for real-time inference with 95%+ accuracy.
- Enhanced business insights through advanced sentiment analysis, providing actionable feedback.
- Implemented caching mechanisms for rapid data retrieval, improving analysis speed by 40%.
- Reduced manual data extraction time by 50% with a robust and automated data pipeline.

## CERTIFICATES & ACHIEVEMENTS

- Secured **3rd place** in **SRM Project Day (2022-2023)** with a cash prize of ₹10,000 for an innovative project presentation.
- Winner of the **Coding Competition** at **Shri Ramachandra College of Engineering**.
- Actively participated in renowned hackathons, including **KLA Girls Hackathon**, **SSN Ventura**, and others, showcasing technical expertise and collaborative problem-solving skills.

## SKILLS

- Languages:** Python, C/C++, Java, SQL, JavaScript, HTML/CSS, React.js, Node.js, Express
- Frameworks:** Flask
- Developer Tools:** Git, Docker, AWS, CI/CD, VSCode
- Databases :** MongoDB, SQL (Relational Database)
- Libraries:** Pandas, Numpy, Matplotlib, CV2
- Others:** Data Structures and Algorithms, Operating Systems, Object Oriented Design & Programming, Computer Networks, Database Management Systems (Relational Database), Machine Learning, Data Science