

PRASATH R

Bachelor of Technology in Information Technology
Sri Sairam Institute of Technology, Chennai

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EDUCATION

- **Bachelor of Technology in Information Technology** 2022 - 2026
Sri Sairam Institute of Technology, Chennai CGPA: 8.11
- **Higher Secondary Education** 2021 - 2022
Velankanni Matriculation Hr Sec School, Chennai Percentage: 90.1%
- **Secondary Education** 2019 - 2020
Velankanni Matriculation Hr Sec School, Chennai Percentage: 77.4%

PROJECTS

- **E-Commerce Shopping Cart [Live Link]**
 - Developed a full-stack e-commerce application with user authentication, cart management, and profile features using React.js, Node.js, and MongoDB.
 - Implemented order email notifications using NodeMailer and designed a responsive UI for a smooth user experience.
- **Cutting Edge Agriculture – Weed Detection and Removal System**
 - Developed a machine learning-based weed detection system using computer vision and CNN models for real-time Weed identification.
 - Integrated ML outputs with an automated laser-based weed removal mechanism and published a patent for the system.
- **Digizen Hub – Full Stack Blog & Article Platform [Live Link]**
 - Led community engagement and managed content operations for a tech and social blogging platform with 100+ active contributors.
 - Contributed to platform development using React.js, Node.js, Express.js, and MongoDB, ensuring smooth content publishing and user engagement.

EXPERIENCE

- **Web Development Intern – Inetz Technologies Private Ltd** June 09, 2025 – July 09, 2025
Full Stack Development
 - Built a full-stack e-commerce website with login, cart, and order functionalities using React.js, Node.js, and MongoDB.
 - Designed a responsive UI using CSS to ensure a consistent user experience across devices.
 - Implemented user authentication, profile management, and email order notifications using NodeMailer.
- **Data Science Intern – Evoastra Ventures Private Limited [GitHub]** July 25, 2025 – August 25, 2025
Data Science
 - Developed an Image Caption Generator using the BLIP model, Hugging Face Transformers, and PyTorch to generate captions for images.
 - Generated multiple diverse captions per image using optimized sampling techniques for better accuracy.
 - Analyzed and visualized caption length and distribution using Matplotlib to evaluate and improve model outputs.

TECHNICAL SKILLS

Programming Languages: Java, Python

Front-End & Back-End Technologies: HTML, CSS, JavaScript, React.js, Node.js

Tools: GitHub, VS Code, Jupyter Notebook, Google Colab

Databases: MySQL, MongoDB

ACHIEVEMENTS

- **Think Hack Hackathon – Winner:** Secured 2nd place for building a drug inventory dashboard to improve medicine tracking and vendor management in healthcare.
- **Solveathon 3.0 – Winner:** Won 1st place under Goal 15 (Life on Land) by designing a laser-powered weed detection and removal system for sustainable agriculture, with a patent published for the innovation.
- **Unplugged 1.0 – Finalist:** Built a functional prototype in a 24-hour hardware hackathon and advanced to the final round for innovative problem-solving.
- **Patent Publication:** Published patent “Cutting-edge Agriculture: Weed Detection and Removal Project”, Application No. 202541055364, on 27 June 2025.

CERTIFICATIONS

- **Introduction to Data Science** (Cisco Networking Academy)
- **Python Essentials 1** (Cisco Networking Academy)
- **AI Fundamentals** (GUVI)
- **Java Training** (Udemy)
- **MySQL For Beginners** (Udemy)