



HARIPRASATH S.

OBJECTIVE

Dedicated student pursuing a degree in Artificial Intelligence and Data Science, with a strong focus on developing innovative solutions in AI, machine learning, and IoT technologies. Skilled in problem-solving, collaboration, and leveraging advanced tools and programming languages. Seeking opportunities to enhance technical expertise and contribute to impactful projects in data analytics, web development, and automation.

SKILLS

Programming Languages

- Python – Proficient
- Java – Competent
- C – Competent
- HTML, CSS, JavaScript – Intermediate

Dev Environments & IDEs

VS Code | MIT App Inventor | Tinkercad |
Google Colab | Anaconda | Jupyter
Notebook

Web & App Development

Flask | Streamlit | Tailwind CSS |
Firebase | Zoho Creator | Twilio | Git &
GitHub | Google Sheets | AWS

Databases & Analytics

SQL | PostgreSQL | MongoDB | Power BI

Machine Learning & AI Tools

Scikit-learn | OpenCV | Hugging Face |
Roboflow

Web Scraping & Automation

Selenium | BeautifulSoup | Postman

Design & UI Tools

Figma | Canva | Photopea

IoT & Embedded Systems

Arduino | Raspberry Pi Pico | Basic-
Sensor, Actuators | Thingspeak | Wowki
| DroneBlocks

PROJECTS

SIH Hackathon participation

- Participated in Smart India Hackathon 2023 for the Department of Drinking Water and Sanitation, Ministry of Jal Shakti (GOI), developing IoT and AI-based solutions for real-time water quality monitoring, contamination detection, and efficient sanitation management in rural areas.
- Participated in Smart India Hackathon 2024, presenting multiple ideas and working on carbon footprint quantification in coal mines, developing web applications and IoT-based solutions for real-time carbon monitoring and reduction.

Kalam awards participation

- Participated in the Kalam Awards 2024 with the project titled "Automated Smart Tractor" – integrated with soil moisture sensing, ESP32-CAM-based live monitoring, and automated seeding system for precision agriculture.

IoT Projects

- Agri Bot – Crop monitoring using Arduino & Firebase.
- E-Vehicle – IoT-enabled EV for remote tracking.
- Gas Detector – Real-time alerts via Wi-Fi.
- Bridge System – Automated bridge control using ESP8266.
- Spyder Bot – Surveillance bot with wireless camera & remote control
- IoT CCTV System – ESP32-CAM used for low-cost home security.
- Created app for control using MIT app inventor

PERSONAL INFO

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- 🌐 <https://github.com/Hariprasath191>

EDUCATION

2022 – present
PSNACET (DINDIGUL)

- B.Tech - AI & DS
- Current CGPA : 7.74

2021 - 2022
THAAI METRIC HIGHER SECONDARY
SCHOOL , T.VDIPATTI, MADURAI

- HSC - perctange : 80.6%

2019 - 2020
THAAI METRIC HIGHER SECONDARY
SCHOOL , T.VDIPATTI, MADURAI

- SSLC - perctange : 99%

PERSONAL SKILLS

- Strong problem-solving abilities
- Team collaboration and leadership
- Adaptability and quick learning
- Time management and organization




LANGUAGES

- English (Fluent)
- Tamil (Fluent)

HOBBIES

- Drawings
- Games

ML Projects

-  Image Classifier – Object detection with Roboflow.
-  Predictive Models – Basic ML models .
-  Chatbots - Using API and using nltk , streamlit

Web development projects:

- Developed “Medic++” – a comprehensive healthcare management system for maintaining patient and doctor records, ambulance tracking, appointment tokens, integrated chatbot support, and map-based hospital navigation.

LinkedIn Web Scraper & Call Automation System

- Developed a Python-based system to scrape LinkedIn data, automate voice calls, and store contact details in a database for outreach purposes.

ACHIEVEMENTS :

Best Paper Award – VIT Chennai

Presented a research paper at a conference held by VIT Chennai and received the Best Paper Award. Focused on "Automated Segregation of Solid Waste: Integration of Robotic Arm with PLC Controller," showcasing innovative research and presentation skills.

Publication – SurveilGuard: Intelligent Surveillance

SurveilGuard: Intelligent Surveillance – Detecting, Reporting, and Alerting (2024). Published in the International Research Journal on Advanced Engineering Hub (IRJAEH), 2(12), pp. 2821–2827.

 DOI: [10.47392/IRJAEH.2024.0390](https://doi.org/10.47392/IRJAEH.2024.0390)

Winner – IEEE Hackathon

Won the IEEE Hackathon with a team project focused on innovative IoT solutions, showcasing problem-solving skills and teamwork in high-pressure environments.

ACTIVITIES :

• Hackathons & Competitions

- Participated in multiple hackathons and project competitions, presenting solutions in IoT, AI, and machine learning, receiving recognition for innovative ideas and project development.

• Paper Presentations

- Presented technical papers in various domain-based events, showcasing research in IoT, AI, and related fields.

• Design Work

-  Magazines & Posters – Designed department & event materials with Canva.

ROLES & RESPONSIBILITIES :

• Vice President – Robo Club- (2024-2025) , Technical Head (2023 - 2024)

- Led technical events, mentored juniors, and coordinated club activities.




• Magazine Team Lead – Dept. Editorial Board -(2024 , 2025)

- Managed magazine design, layout, and content curation using Canva.

• Multi Media Director – Rotaract Club(2024 - 2025)

- Handled event promotions and boosted online presence through creative posts.

CERTIFICATES :

-  Certifications – Udemy, Great Learning, Simplilearn, Palo Alto Networks & Sololearn
 - Completed courses in Python, Machine Learning, AI, Web Development, Cloud Security (Palo Alto), Business Analysis (Simplilearn), and more – gaining hands-on, cross-domain experience.
 -  AWS Cloud Partitioning
 - Explored scalable architecture and data partitioning on AWS.
 -  Zoho Creator – App Development
 - Developed low-code apps and automated workflows
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