

# Hariprasath S.

## Artificial Intelligence and Data Science Student

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.

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<https://github.com/Hariprasath191>

## EDUCATION

### B.Tech (AI & DS)

PSNA College of Engineering and Technology

• (Expected Graduation: 2026)

7.77 CGPA

### CLASS XII in SCIENCE

Thaai Matri Hr. Sec. School

80.6 %

2022,

### CLASS X

Thaai Matric Hr. Sec. School

99%

2020,

## Projects and Experience

SIH Hackathon Participant (2023 & 2024)

- 2023: Selected in the internal hackathon at PSNACET, working on innovative solutions to real-world challenges.
- 2024: Worked on multiple problem statements, including the ongoing project on carbon footprint quantification in coal mines. Developed web applications and IoT-based solutions for carbon monitoring and reduction.

IoT Projects

- Developed projects such as Agri Bot, E-Vehicle, Gas Detection System, and Automated Bridge Rising.
- Utilized Arduino, ESP32, ESP8266, Firebase, Python, Twilio, and Wi-Fi for automation and real-time data transmission.

Mentor for IoT Projects

- Guided projects utilizing Arduino, ESP32, ESP8266, Firebase, and cloud technologies.
- Integrated Python, Twilio, and Wi-Fi modules for smart applications.

Hackathon Participation

- Participated in various hackathons, presenting solutions across multiple domains including IoT and AI.
- Earned certificates for participation in competitive problem-solving environments.

Machine Learning Projects

- Completed small-scale machine learning projects using Roboflow and Hugging Face, focusing on image classification and data-driven models.

Magazine and Pamphlet Designer

- Designed and contributed to the development of department magazines and promotional materials for clubs and events.

## IoT Workshop Organizer

- Organized and led IoT workshops, sharing expertise on topics like Arduino, ESP32, and IoT systems.
- Facilitated learning through hands-on activities and live demonstrations for students.

## Technical Skills:

- Programming Languages: Python, Java, C
- Web Development
- Data Analytics
- IoT Technologies
- Machine Learning
- Tools: Roboflow, Hugging Face, Firebase, Arduino, Splinet, Twilio, Tinkercard, wowki, MIT app inventor, powerBi, Drone blocks

## Personal Skills:

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

## ACHIEVEMENTS

Best Paper Award at 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", demonstrating innovative research and presentation skills.

## INTERNSHIPS

SKILLVertex

Completed an internship focused on IoT and Automation.

- Worked with Arduino, ESP32, and Firebase to develop IoT solutions.
- Utilized MQTT protocol for real-time data transmission and ThingSpeak for data visualization and cloud integration.
- Gained experience in building smart automation systems with real-time data monitoring and control.

## CERTIFICATES

- Completed various certifications from GretaLearn, Udemy, and other platforms in areas like Python, AI/ML, and Web Development.
- Attended multiple hands-on workshops covering topics such as IoT, Cloud Computing, Arduino, and ESP32.

## Ongoing Learning:

- Exploring Deep Learning concepts, including RNNs and LSTMs, and developing web applications using Django for data visualization and predictive analytics.
- Gaining practical experience in IoT technologies (Arduino, ESP32), machine learning frameworks (Roboflow, Hugging Face), and database management with MongoDB and Firebase.

## LANGUAGES

English

Full Professional Proficiency

Tamil

Full Professional Proficiency

## INTERESTS

Drawing

Games

Coding