

ABIRAMI G

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PROFESSIONAL SUMMARY

A final-year B.Sc. Information Technology student with a strong interest in technology and a passion for solving problems. Open to technical roles where I can apply my learning, gain hands-on experience, and grow professionally. I bring a positive attitude, a willingness to learn on the go, and a focused approach to getting things done.

WORK EXPERIENCE - INTERNSHIP

Ormatrix – Full Stack Development JAVA

MAR 2025

I worked on developing and maintaining applications using Java and Spring Boot, focusing on backend logic API integration, and database connectivity. This helped me strengthen my programming skills while gaining exposure to real-time project workflows.

Kashiv Infotech – Artificial Intelligence

SEP 2025

In Artificial Intelligence, focusing on Python-based AI concepts. I gained hands-on experience in implementing various Machine Learning algorithms (Classification, Regression, and Clustering) and practical data preprocessing techniques. This experience involved real-time project work, providing a solid foundation in industry-relevant AI development practices.

PROJECT

RailGuard: WSN-Cloud System for Real-Time Collision Avoidance and Health Monitoring SEP 2025

Developed a robust Wireless Sensor Network (WSN)-based system for railway collision prevention, utilizing real-time data acquisition from sensor nodes (Ultrasonic/IR sensors). The system employed Microcontrollers (Arduino/ESP32) and wireless communication protocols (Zigbee, GSM/GPS) to monitor train movement. It implemented a predictive analytics alert mechanism for automated collision avoidance and enhanced railway safety.

TECHNICAL SKILLS

- **Programming & Development:** Python, Java (Spring Boot), JavaScript, PHP, HTML, CSS
- **Frontend:** React.js
- **Backend & Database:** MySQL, Full Stack Development, SQL Data Science
- **Tools:** Data Analytics

CORE COMPETENCIES AND RECOGNITIONS

Certifications: Artificial Intelligence Fundamentals-IBM SkillsBuild, Getting Started with MongoDB Atlas-MongoDB, Data Analytics (80-hour course completed at Theivanai Ammal College- scored 91 marks), Human Behaviour (Elite NPTEL Online Certification from IIT Guwahati with 73%), Robotics Process Automation (RPA) (Completed eLearning course from Automation Anywhere)

Achievements: International Conference Participation – presented a paper titled The International Conference on Artificial Intelligence is the New Frontier of Digital Technology and Patent. Participated in the National Conference on Exploring the Impact of AI in Revolutionizing Industries (EIAIRI-2025), Winner – Secured Second Prize in the Thinkers Challenge at the Inter-Departmental Genius Conclave.

EDUCATION

B.Sc. Information Technology

2022 – PRESENT

Theivanai Ammal College for Women, Villupuram

CGPA - 7.89/10

Government Girls Higher Secondary School, Tiruvannamalai

2021-2022

Percentage - 77.57