ASHWIN T

Date of Birth: 16/04/2004
Bachelor of Engineering
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PROFILE SUMMARY

Final year Computer Science Engineering student from RR Institute of Technology, skilled in Java technologies with a deep understanding of OOPs and core CS concepts. Demonstrates excellent problem-solving and analytical abilities. Exhibits strong self-motivation and ability to work efficiently both collaboratively and independently. Experienced In using Gen AI tools including improve development workflow & problem solving.

EDUCATION

B.E. Computer Science and Engineering | RR Institute of Technology | CGPA: 8.0 ***2022–Present***
Higher Secondary | SSGHSSHSS Payyanur | Percentage: 91.4% ***2021-22***
High School | SABTMHSS, Payyanur | Percentage: 95% ***2020***

SKILLS

Languages: Java, JavaScript
Frontend Development: HTML5, CSS3, JavaScript
Backend Development: Java
Databases: MySQL
Development Tools: VS Code, Git, GitHub, Cursor, Anti-Gravity
Computer Science Fundamentals Object-Oriented Programming (OOP), Data Structures and Algorithms, Operating Systems (OS), Database Management Systems (DBMS)
Soft Skills: Problem Solving, Team Player, Adaptability

PROJECTS

Text to Image Conversion Using AI *(HTML, CSS, JavaScript, Hugging Face API, AI)* ***2024***

- Developed an AI-based system to generate images from text using Hugging Face API.
- Built a responsive UI with HTML, CSS, and JavaScript.
- Implemented async Fetch API for smooth, real-time image generation.
- Added prompt validation, loading animation, and image download option.
- Secured API key usage and optimized response time.
- Integrated error handling for invalid prompts and API issues.

Flood & Landslide Prediction *(ESP32, IoT Sensors, Thing Speak, Python, ML Models) – Live Demo* ***2025***

- Developed a real-time flood monitoring system using ESP32 with ultrasonic, rain, soil-moisture, and vibration sensors.
- Implemented continuous cloud data upload and visualization using Thing Speak IoT platform
- Built ML models (Random Forest, SVM, KNN, Decision Tree) for accurate flood-risk prediction.
- Designed alert mechanism for Safe, Warning, and Critical flood-risk levels

Sensagram (*Android Sensors, UDP, Python, Blender, Pygame***)** **2025**

- Built a real-time motion-control system using smartphone accelerometer & rotation-vector sensors.
- Implemented low-latency UDP communication to stream sensor data to a Python server
- Demonstrated responsive 3D/2D virtual control suitable for robotics, AR/VR, and IoT systems.

CERTIFICATES

- Electronic Arts Software Engineering virtual experience program on Forage ***2025***
- SOAR – AI to be Aware (Microsoft & Skill India – NCVET Certified) ***2025***