Gavini Fanidhar

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About Me

A highly motivated and innovative Computer Science and Engineering student at GITAM University, Hyderabad, with a strong foundation in programming, problem-solving, and product engineering. Passionate about technology and automation, I have hands-on experience in developing smart systems, including the **Arduino Smart Waste Segregator**, which integrates sensors and microcontrollers for efficient waste classification. Proficient in **Java, Python, C, HTML, CSS, and JavaScript**, with expertise in **full-stack web development, Android app development, and data structures**. Dedicated to continuous learning and leveraging technology to build impactful solutions.

Projects

BapatlaTourism(Website in Development)

Technologies:
• **Frontend:** HTML, CSS, JavaScript
• **Backend:** Java (Android)
• **Database:** Firebase (for storing user preferences, reviews, and travel details)
• **APIs:** Google Maps API (for location-based services)
Features:
• Provides information about tourist places in and near Bapatla district.
• Displays details about nearby hotels, their costs, and availability of rooms.
• Offers real-time seat and service availability for buses and trains.
• Integrates Google Maps for directions and travel planning.
• Enables users to filter locations based on categories like historical sites, beaches, and religious places.
Working Principle:
• The app fetches data from Firebase to provide up-to-date travel information.
• Users can search and filter destinations based on preferences.
• Google Maps API integration allows users to navigate to their selected locations.
• Hotel booking links and transport availability updates are provided dynamically.

Arduino Smart Waste Segregator

Course: Technology Exploration & Product Engineering (Group Project)
Technologies:

- **Sensors:** IR, Proximity Switch, Raindrop Moisture Sensor
- **Microcontroller:** Arduino UNO R3
- **Motors:** Servo 9G, 12V DC Stepper Motor
- **Power:** Two 3.7V Li-ion Batteries(Rechargable, 2000mAh each)

Coding Language: Arduino C++

Working Principle:

- IR sensor detects waste presence.
- Moisture sensor identifies wet waste; Proximity Switch detects metal.

- Stepper Motor positions the mechanism, and the Servo Motor opens the lid to sort waste into Dry, Wet, or Metal categories.
- If no wet or metal signals, waste is classified as dry.

Skills

Programming Languages: Java, Python C, HTML, CSS and JavaScript.

Web Development: Full-stack Web development; Frontend in HTML, CSS and JavaScript and Backend in JavaScript and Python.

Android App Development: Backend development in Android apps using Java and Kotlin.

Data Structures, Algorithms and Problem-Solving: Proficient in Problem solving and Data Structures in Java.

Education

2024-2028(Currently Running) GITAM(Deemed to be) University, Hyderabad.	**B.Tech. Computer Science and Engineering** CGPA: 8.80/10.00
2022-2024 Sri Chaitanya Junior College, Bapatla.	**10+2 in Mathematics, Physics and Chemistry** Percentage: 94.8 %
2021-2022 Little Flower E.M. School, Guntur.	**10th ICSE 2021-22** Percentage: 88%

Certifications

- **CSS(Basic) –** HackerRank
  Issued: 09 May 2025
- **Java(Basic) –** HackerRank
  Issued: 09 May 2025