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## Bathula Naresh

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### Career Objective

Motivated and adaptable Engineering graduate seeking an opportunity in the field of Information Technology to utilize and enhance my skills. Eager to contribute to organizational success through innovation, teamwork, and a strong work ethic.

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### Education

Degree	Institution	Year	Percentage/GPA
B Tech (Electronics and Communication Engineering)	CMR Technical Campus	2023	GPA: 6.33/10
Intermediate (MPC)	Narayana Junior College	2019	95.6%
SSC	Telangana Board of Secondary Education	2017	CGPA: 8.8/10

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### Technical Skills

- **Programming Languages:** OOPs ,HTML ,CSS ,Basic java,
  - **Tools & Technologies:** Eclipse
  - **Other Skills:** Basic understanding of embedded systems and GSM-based applications
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### Projects

#### Major Project:

#### GSM-Based Agriculture Field Control System

- Designed and developed a **GSM-enabled system** to remotely monitor and control agricultural field parameters like soil moisture, temperature, and water supply.
- Used **GSM (Global System for Mobile Communication)** module to send and receive SMS alerts to and from the farmer's mobile phone.
- Integrated **microcontroller (Arduino/8051)** with various sensors (soil moisture sensor, temperature sensor) to collect real-time data from the field.
- Enabled farmers to **control irrigation pumps and other equipment remotely** by sending simple SMS commands.
- Reduced manual labor and water wastage by automating the irrigation process based on sensor inputs.
- Focused on providing a **cost-effective solution for small and medium-scale farmers** in rural areas.

- Gained hands-on experience in **embedded systems, wireless communication, and sensor integration.**

### Mini Project:

#### Automated Hand Gesture Controlled Presentation using Machine Learning

- Developed a system to control PowerPoint presentations using real-time hand gestures, eliminating the need for physical devices like a mouse or keyboard.
- Utilized **Python, OpenCV**, and **MediaPipe** libraries for hand gesture detection and tracking.
- Implemented a **machine learning-based gesture recognition model** to classify gestures such as swipe left/right, open palm, and fist.
- Integrated the gesture system with Microsoft PowerPoint using Python automation libraries (**pyautogui**) to simulate keyboard events.
- Enhanced the user experience during presentations by offering a **touchless and hygienic** interface.
- Tested the system under various lighting conditions and backgrounds to improve **gesture detection accuracy.**
- Learned practical skills in **computer vision, real-time processing, and human-computer interaction.**

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### Certifications

- Machine Learning with Python – LABVIEW Academy (Online)

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### Hobbies & Interests

- Playing Cricket
- Traveling
- Watching Movies
- Web Research and Reading

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### Personal Details

- **Date of Birth:** 12/12/2000
- **Father's Name:** Bathula Venkataiah
- **Languages Known:** Telugu, English, Hindi

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### Declaration

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

**Date:**

**Place:**

**Signature:**

Bathula Naresh

