



# DIMPLE H

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## CONTACT

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## EDUCATION

**Expected in 06/2026**  
**T JOHN INSTITUTE OF TECHNOLOGY**

- Bachelors of Engineering, AIML
- CGPA - 8.0

**04/2022**  
**VIJAYA PU COLLEGE**

- Karnataka PU Board
- Percentage : 82

## SKILLS

- Python, AIML
- DSA
- IoT
- Leadership
- Problem Solving
- Critical Thinking
- Adaptability
- Communication Skills

## LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- German (Basics)

## PROFILE

Artificial Intelligence and Machine Learning student with strong skills in robotics, software development, and project management. Committed to exploring diverse areas within AI and emerging technologies. Proven ability to maintain a strong work ethic and improve communication skills while fostering collaboration for impactful results.

## PROJECTS

### Arduino Uno-based Bluetooth module humanoid robot

Team Leader, Designer

- Developed a humanoid robot for object delivery using Arduino Uno and Bluetooth-based wireless control, optimizing real-time navigation.
- Designed the mechanical structure and implemented embedded C/C++ code in Arduino IDE to ensure stable and efficient movement.
- Led hardware assembly, troubleshooting, and testing, enhancing the robot's performance in real-time delivery operations.

### Smart Cleaning Bot (Clean-o-Matic: The Modern MessMage)

Team Leader, Product Designer

- Built a smart cleaning robot using Arduino Uno, ultrasonic sensors, and a PC fan for autonomous navigation and vacuum functionality.
- Designed the mechanical structure to maximize dust collection efficiency and airflow.
- Programmed the robot in Arduino IDE (C/C++) to enable real-time obstacle detection and automated cleaning.

### Customer Service Chatbot using GenAI

Development

- Developed an intelligent virtual assistant using Python and GenAI tools like OpenAI's language models for human-like conversations.
- Implemented Natural Language Processing (NLP) techniques to understand user queries and generate context-aware responses.
- Demonstrated practical application of Large Language Models (LLMs) in automating real-time support systems.

## CERTIFICATIONS

- Primavera P6 for Project Management - Udemy (2024)
- C Programming - Basics to Advanced Level - Udemy (2024)
- Natural Language Processing Fundamentals - Infosys Springboard (2025)
- Published a paper on smart cleaning robot - IEEE International conference on Intelligent Computing and Communication System