

# Ganesh Ashok Sarode

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LinkedIn Handle

## Education

### Veermata Jijabai Technological Institute

- DEGREE(BTech) - Electronics and Telecommunication • MINOR - Data Science

TILL - 2028

CGPA: 7

### Gurukul Vidhyapeeth

- HSC

TILL - 2024

Percentage - 81.83

## Projects

### Digital Logic Keypad Lock Using Arduino — Project Link

- Designed and implemented a digital logic-based access control system using Arduino and external TTL ICs to verify a 4-bit binary password via hardware-level comparison.
- Technologies: Arduino Uno, C++ (Arduino), 4×4 matrix keypad, 74175 D flip-flop, 74LS85 comparator, relay module, solenoid lock.
- Methodology: Binary input captured via keypad, latched using flip-flop, compared using digital logic hardware, and actuated through relay with LED and buzzer feedback.

### AI-Powered Voice Assistant (JARVIS) — Project Link

- Built a Python-based AI voice assistant capable of understanding voice commands and responding using Google Gemini API.
- Implemented wake-word detection, speech-to-text processing, and text-to-speech feedback for real-time interaction.
- Integrated web automation, music playback, and voice-controlled mini-games using modular Python architecture.
- Ensured secure API usage by managing sensitive keys through environment variables instead of hardcoding.

## Technical Skills

### Programming: Python , C++

## Achievements and Leadership

- 99.21 percentile in MHTCET 2024.