WIFI TALKING ROBOT

OUR TEAM

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ABSTRACT

- Wi-Fi Talking Robot can listen to your voice and reply back like a smart assistant. It uses speech recognition and synthesis to communicate in real time.

- It connects to the internet using Wi-Fi for wireless and remote control. This allows the robot to access online information and updates.

- It is built using parts like a microcontroller, mic, speaker, motors, and wheels. These components help the robot move, talk, and respond to commands.

EXISTING SYSTEM

1. Voice Recognition and Response
2. Wi-Fi Connectivity
3. Mobile App Control
4. Basic AI Integration
5. Sensor Integration
6. Educational Support

PROPOSED SYSTEM

1. WIRELESS CONTROL

2. BASIC MOVEMENT FUNCTIONS

3. SMARTPHONE APP INTERFACE

4. WEB-BASED CONTROL (WI-FI)

5. SENSOR DATA MONITORING

6. POWER MANAGEMENT

HARDWARE REQUIRED

1. Wi-Fi microcontroller

2. Speech recognition

3. Motors & wheels for Car

4. Microphone & Speaker

5. Power supply Li-ion Battery

6. Chassis/Frame Body Structure

SOFTWARE REQUIRED

1. Firmware for microcontroller [Arduino IDE]

2. Speech recognition [Google Assistance]

3. Robot control & networking code

4. Mobile/web interface for remote control (optional)

5. Stable Wi-Fi network

Key Features & PRINCIPLE

- Hands-free, voice-controlled operation over Wi-Fi.

- Improved human-robot interaction and accessibility.

- Cost-effective, modular, and suitable for diverse applications/users.

- Combines wireless remote control, real-time voice interaction, and cloud connectivity for enhanced feature.

THANK YOU