# **Obstacle Avoidance Bot Using NodeMCU**

### 1. Ultrasonic Sensor (HC-SR04)

```
Ultrasonic Sensor (HC-SR04):

| Sensor Pin | Connected to NodeMCU | Purpose
|-------|
|------|
| VCC | 3.3V or 5V | Power supply |
| GND | GND | Ground |
| Trig | D1 (GPIO 5) | Trigger signal |
| Echo | D2 (GPIO 4) | Echo signal input |
```

#### 2. Motor Driver Connections

Motor Driver (L298N or similar):

#### 3. RemoteXY Wi-Fi Configuration

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# 4. RemoteXY Button Mapping

## RemoteXY Button Mapping:

Button   RemoteXY Variable   Function Called   Description				1
	-			
Forward	button_02	forward()	Moves forward if no	obstacle ahead
Reverse	button_01	reverse()	Moves backward	
Left Turn	button_03	anticlock()	Rotates left	
Right Tur	n   button_04	clockwise()	Rotates right	1