# Autonomous Path exploring and mapping Vehicle

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#### The Task

- Automating the motion of a car model
- Avoiding obstacles
- Creating a map of the surroundings

## Components

- ▶ Collecting and Sending Ultrasonic Sensor data to the server
- ► AWS Server
- ▶ Car Navigation System
- ► Three.JS to display the map

#### Tech Stack

- ► ESP32
- ▶ Ultrasonic Sensor
- ► Node.JS
- AWS
- ► Three.JS

### Challenges

- Navigating through the space
- Creating a map from the collected Data.
- ▶ Maintaining Constant connecting with the server.

#### Timeline

- Week 1- Acquiring the components
- Week 2- Programming the Server and getting data from the sensors
- ▶ Week 3- Visualizing the data in website
- Week 4- Integrating the Components

# Thankyou