# **AUTOMOTIVE INDUSTRY**

### **OVERVIEW**

The automotive industry is a backbone of modern economies. It faces a lot of problems such as safety risks, high operational costs & unexpected equipment failures. Our project introduces an Ai powererd solution that predicts when maintenance is needed, helps companies in the autommotive industry reduce.downtime, and also improve workplace safety. Using Artificial intelligence, we align with the Fourth industrial Revolution (4IR) principles, automating business processes and driving cost-efficient growth.

### MAIN OBJECTIVE

Our objective is to develop an Al based predictive maintenance system that is quick to locate warning signs of any fallure in vehicles and manufacturing machinery. enable cost savings, increase safety, and boost productivity in the automotive industry.



#### AI APPLICATION

- Gather live ioT sensor data from vehiclee and/or machinery
- · Train Machine Learning models to detect patterns of wear and tear
- Use predictive algorithmis to project Sater transport for failures

#### **IMPACT**

- · Scale down repair and replacement costs
- · Extended vehicle and machinery lifespan
- employees and communities

**SMARTER, SAFER & STRONGER** 

## AI-BASED CAR FAULT DETECTION & PREDICTIVE MAINTENANCE

