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**Course Code :** DSA0613

**Slot:** A

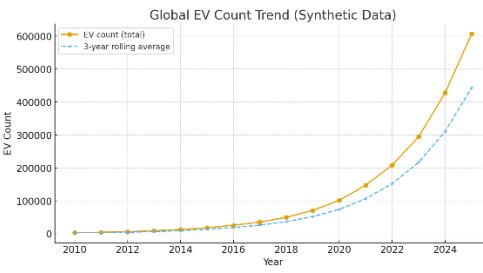
**Course Name:** Data Handling and Visualization for Data Analytics

**Course faculty:** Dr. Kumaragurubaran T ,Dr. Senthilvadivu S

## **Project Title: Trend Visualization of Electric Vehicle Adoption for Sustainable Transportation Analysis**

**Module Photographs:** (3 photographs –Module Photo, Individual student contribution module work in the project and presentation image)

### **Module 2 : Environmental Impact & Sustainability Analysis**



#### MODULE-2 Environmental Impact & Sustainability Analysis



- Analyzing how increased EV use reduces CO<sub>2</sub> emissions and fossil fuel dependency.
  - Comparing emission data before and after EV adoption.
  - Visualization of CO<sub>2</sub> reduction trends and renewable energy integration.
  - Assessing EV contribution toward UN Sustainable Development Goals (SDG 7, 11, and 13).
  - Policy recommendations for improving sustainability impact.
- Outcome:- Demonstrates how EV adoption supports sustainable transportation and cleaner environments.*

### **Project Description:** (here you write what you did in this project (contribution) including Model Description

This project analyzes the environmental impact of electric vehicle (EV) adoption for sustainable transportation.

In Module 2, we studied how EV usage helps reduce carbon emissions and air pollution. We compared electric vehicles with fuel-based vehicles using adoption and emission data. Trend visualizations were created to show the growth of EVs over time. The model uses cleaned data to identify sustainability patterns and emission reduction trends. This analysis highlights the role of EVs in supporting eco-friendly transportation.

**Student Signature**

**Guide Signature**

