PROJECT REPORT TEMPLATE

VISUALISATION TOOL FOR ELECTRIC VEHICLE CHARGE AND RANGE ANALYSIS



GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN, TIRUCHENDUR. (III B.Sc PHYSICS)

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1.INTRODUCTION

OVERVIEW

An Electric Vehicle is a vehicle that uses one or more electric motors for propulsion. It can be powered by a collector system, with electricity from extravehicular sources, or it can be powered autonomously by a battery. EVs include, but are not limited to road and rail vehicles, surfaces and underwater vessels, electric aircraft and electric spacecraft. For road vehicles, together with other emerging automotive technologies such as autonomous driving, connected vehicles and shared mobility. EVs form a future mobility vision called Connected, Autonomous, Shared and Electric (CASE) Mobility.

EV first came into existence in the late 19th century, when electricity was among the preferred methods for propulsion , providing a level of comfort and ease of operation that could not be achieved by the gasoline cars of the time. Internal combustion engines were the dominant propulsion method for cars and trucks for about 100 years, but electric power remained common place in other vehicle types, such as trains and smaller vehicles of all types.

In the 1930s, National City Lines, which was a partnership of General Motors, Firestone and Standard Oil of California purchased many electric tram networks across the country to dismantle them and replace them with GM buses. The partnership was convicted of conspiring to monopolize the sale of equipment and supplies their subsidiary companies, but was acquitted of conspiring to monopolize the provision of transportation services.

During the late 20th and early 21st century, the environmental impact of the petroleum based transportation infrastructure, along with the fear of peak oil, led to renewed interest in electric transportation infrastructure. EVs differ from fossil fuel powered vehicles in that the electricity they consume can be generated from a wide range of sources including fossil fuel, nuclear power and renewable such solar power and wind power or any combination of those.

PURPOSE

Projects allow us to pursue interests and ideas outside of the scope of their work. Building new neural connections in the brain can keep you creative and your mind strong.

It can reduce vehicular emissions and air pollution levels within the country. Fame India Scheme targets to convert 30% of total transportation into electric vehicles by the year 2030.

EV use electricity to charge their batteries instead of using fossil fuels like petrol or diesel.EV are more efficient and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for travel requiements.

2.PROBLEM DEFINITION & DESIGN THINKING

EMPATHY MAP

Empathy map helps describe the aspects of a user's experience, needs and pain points ,to quickly understand your user's experience and mindset.

Says

Its says that

- > Lower maintainance due to an efficient electric motor.
- > Solution to carbon di oxide emission.
- > Recharging cost of EV is cheaper than the cost of gasoline.
- > Reason to avoid buying EV-Range, Price, Charging.

Thinks

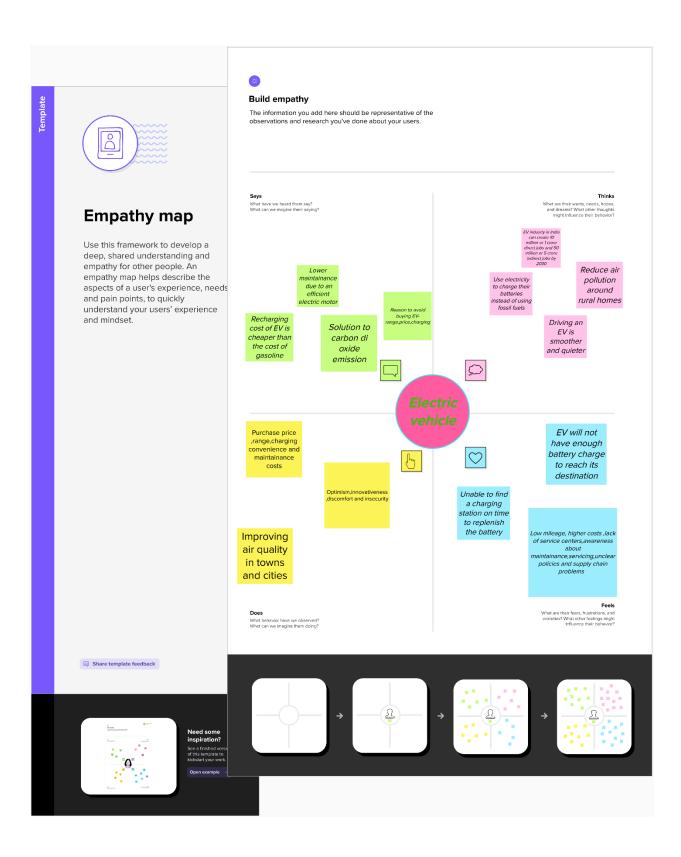
- > Reduce air pollution around rural homes.
- Driving an EV is smoother and quieter.
- > Use electricity to charge their batteries instead of using fossil fuels
- > EV industry in India can create 10 million or 1 crore direct jobs and 50 million or 5 crore indirect jobs by 2030.

Does

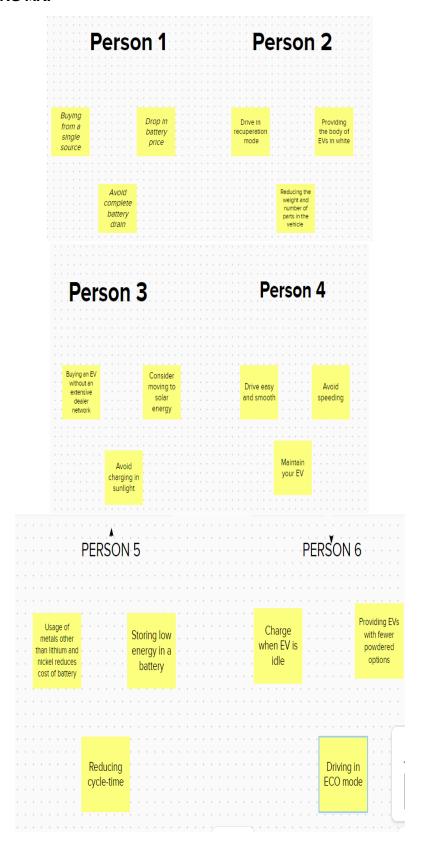
- > Improving air quality in towns and cities.
- > Purchase price, range, charging convenience and maintainance costs.
- > Optimisim,innovativeness,discomfort and insecurity.

Feel

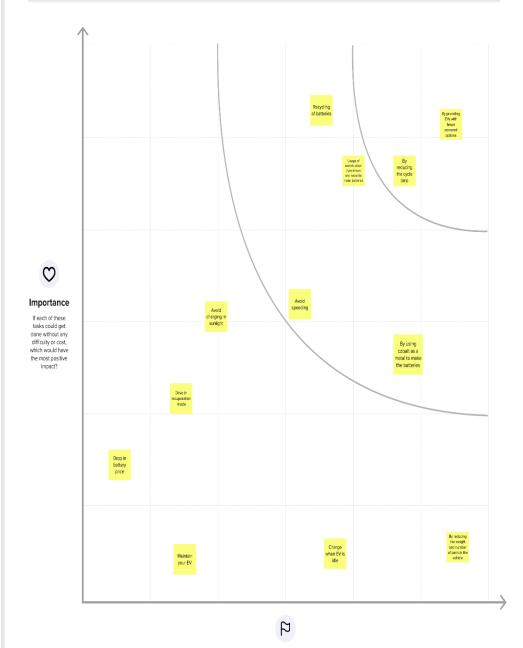
- > EV will not enough battery charge to reach its destination.
- Unable to find a charging station on time to replenish the battery.
- > Low mileage, higher costs, lack of service centres, awareness about maintainance, unclear policies and supply chain problems.



BRAINSTROMING MAP



| Per | son 7 | | | | Person 8 | |
|---|---|--|--|---|------------------------------|------------|
| Using co as a meta make batter | al to a | Providing EVs with uncomplicated seat designs | | EV without combustion engine legacy element | Usage station grid,inv | iary · · · |
| | Do not mak a profit fro the sale o EVs | <mark>m</mark> | | | Recycling of batteries | |



Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

3.RESULT

DASHBOARD

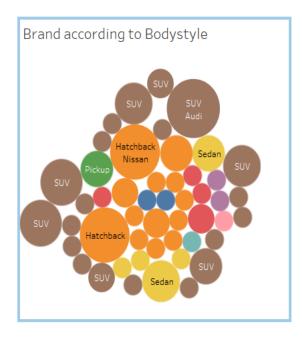
E-Car Start Analytics Dashboard

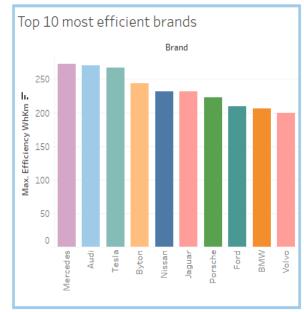
Electric Cars Analytics Dashboard

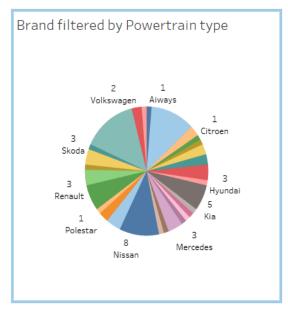
Different electric cars in India

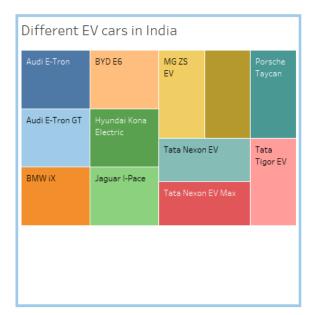


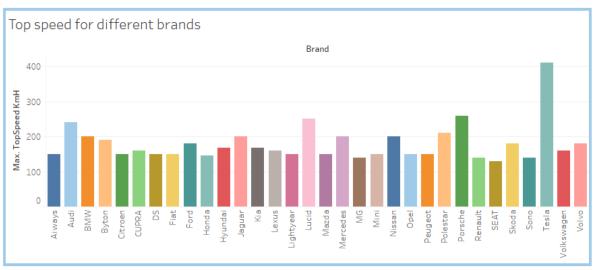
Different brands of electric car globally

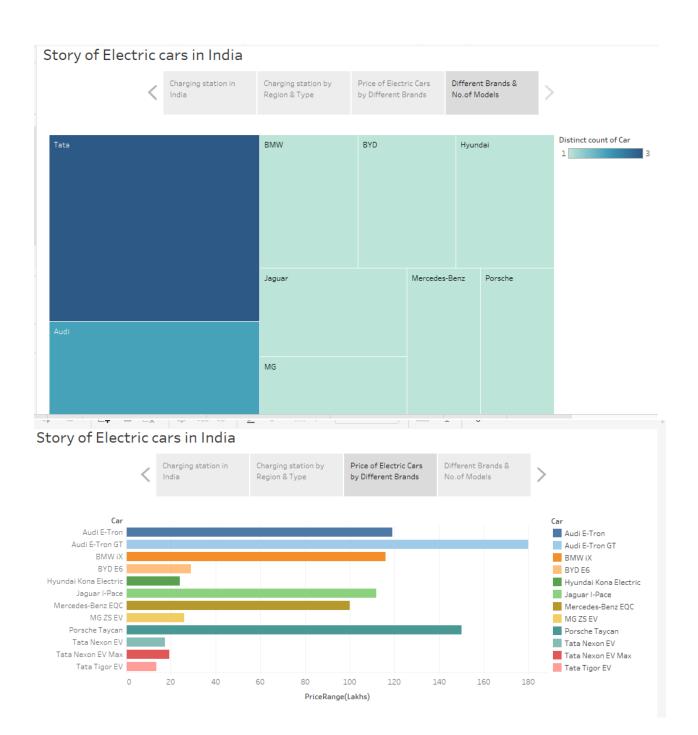


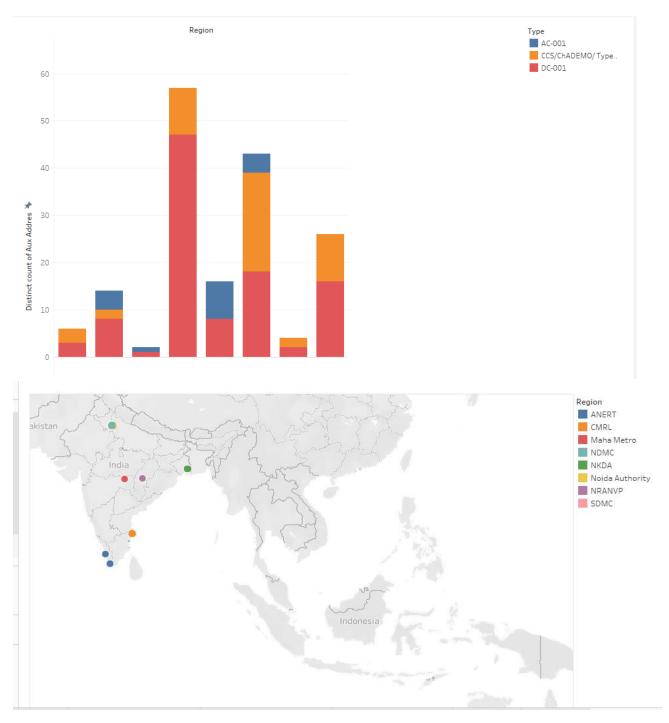












4. ADVANTAGES AND DISADVANTAGES

ADVANTAGES

* Driving an Electric car is significantly smoother. Because they lack fast moving elements, they are quieter and produce less noise.

- It do not utilize fuel for combustion, there are no emission or gas exhaust.
- Driving an electric car can help to contribute to a cleaner environment.
- * Repair are simpler and less expensive than combustion engines.
- Electricity is far less expensive than fuel such as gasoline and diesel, which are subject to regular price increases.

DISADVANTAGES

- Unlike conventional automobiles, which require only a few minutes to replenish their gas tanks, charging an electric vehicle takes many hours.
- * Electric vehicles continue to be quite expensive and many buyers believe they are not as inexpensive as traditional automobiles.
- * People who need to travel long distances are concerned about finding adequate charging station in the middle of their journey, which are not always accessible.
- * When compared to conventional automobiles, electric vehicles have a short driving range.
- * Electric cars are convenient for short distance travel but are inconvenient for long distance travel.

5.APPLICATION

An EV is a vehicle that runs on electric energy, powered by a motor. Since they do not emit exhaust gas, they are rapidly gaining popularity in recent years as eco friendly vehicles. It is equipped with a high capacity lithium ion battery pack and a high power motor of driving. The output from the lithium ion battery is a DC current whereas the drive motor of EV is an AC motor. Therefore, an inverter that converts DC into three phase AC must also be installed.

A harness is also essential to ensure the safe and reliable transmission of high voltage electricity.EV use the back EMF from the motor to save energy.Therefore,in the development of motors and inverters for EV,it is also necessary to conduct tests using regenerative DC power supplies.

The most common battery voltage installed in EV ids around 300V to 400V. Motor and battery capacities are expected to become high voltage and high power in the future in order to improve driving range.

Matsusada Precision has a models of DC stabilized power supplies and regenerative power supplies that can be used to evaluate various

electrical components such as motors, inverters and DC/DC converters. It also have a models that can handle high voltages of 800V or more so we can make proposals in anticipation of higher voltages.

6.CONCLUSION

The progress that the EV industry has seen in recent years is not only extremely welcomed, but highly necessary in light of the global greenhouse gas levels. As demonstrated within the economic, social and environmental analysis sections, the benefits of EV far surpass the costs. Over the course of the next decade technological advancements and policy changes will help ease the transition from traditional fuel powered vehicles.

7.FUTURE SCOPE

Most Indian buyers believe that an EV will be ready by 2023,but the majority also believe that it would no longer be available until 2025. Consumers in India are looking for a lower price for Evs than those in other counteries,with the global average tipping price for EV s being \$36,000. The global electric car stock expands to almost 350 million vehicles by 2030,but future growth will hinge on efforts to diversify battery manufacturing and critical mineral supplies to reduce the risks of supply bottlenecks and higher prices.

The Economic survey 2023 predicts that India's domestic electric vehicle market will see a 49% compound annual growth rate(CAGR)between 2022 and 2030, with 10 million annual sales by 2030.Additionally, the electric vehicle industry is projected to create around 50 million direct and indirect jobs by 2030. This is consistent to reach net zero carbon emissions by 2070. The Indian Electric Vehicle market was worth USD 1434.04 million in 2021, and it is predicted to grow to USD 15397.19 million by 2027, at a CAGR of 47.09% during the forecast period(2022-2027).

8.APPENDIX

```
<link href="assets/img/favicon.png" rel="icon">
 <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">
 <!-- Google Fonts -->
 ink
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600
,600i,700,700i|Nunito:300,300i,400,400i,600,600i,700,700i|Poppins:300,300i,40
0,400i,500,500i,600,600i,700,700i" rel="stylesheet">
 <!-- Vendor CSS Files -->
 <link href="assets/vendor/aos/aos.css" rel="stylesheet">
 <link href="assets/vendor/bootstrap/css/bootstrap.min.css"</pre>
rel="stylesheet">
 <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css"</pre>
rel="stylesheet">
 <link href="assets/vendor/glightbox/css/glightbox.min.css"</pre>
rel="stylesheet">
 <link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
 <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">
 <!-- Template Main CSS File -->
 <link href="assets/css/style.css" rel="stylesheet">
 * Template Name: FlexStart - v1.12.0
 * Template URL: https://bootstrapmade.com/flexstart-bootstrap-startup-
template/
 * Author: BootstrapMade.com
 * License: https://bootstrapmade.com/license/
 </head>
<body>
 <!-- ===== Header ===== -->
 <header id="header" class="header fixed-top">
   <div class="container-fluid container-xl d-flex align-items-center</pre>
justify-content-between">
     <a href="index.html" class="logo d-flex align-items-center">
       <img src="assets/img/logo.png" alt="">
       <span>E-CarStart</span>
     </a>
     <nav id="navbar" class="navbar">
       <111>
         <a class="nav-link scrollto active" href="#hero">Home</a>
         <a class="nav-link scrollto" href="#about">About</a>
         <a class="nav-link scrollto" href="#values">Dashboard</a>
         <a class="nav-link scrollto" href="#services">Story</a>
         <a class="nav-link scrollto" href="#team">Team</a>
         <a class="nav-link scrollto" href="#contact">Contact</a>
         <a class="getstarted scrollto" href="#about">Get</a>
Started</a>
       <i class="bi bi-list mobile-nav-toggle"></i>
     </nav><!-- .navbar -->
```

```
</div>
  </header><!-- End Header -->
  <!-- ===== Hero Section ====== -->
  <section id="hero" class="hero d-flex align-items-center">
    <div class="container">
      <div class="row">
        <div class="col-lq-6 d-flex flex-column justify-content-center">
          <hl data-aos="fade-up">We offer modern Analytics solutions for
Electric Vehicles</h1>
          <div data-aos="fade-up" data-aos-delay="600">
            <div class="text-center text-lg-start">
              <a href="#about" class="btn-get-started scrollto d-inline-flex
align-items-center justify-content-center align-self-center">
                <span>Get Started</span>
                <i class="bi bi-arrow-right"></i>
              </a>
            </div>
          </div>
        </div>
        <div class="col-lg-6 hero-img" data-aos="zoom-out" data-aos-</pre>
delay="200">
          <img src="assets\img\12085817 20944306.jpg" class="img-fluid"</pre>
alt="">
        </div>
      </div>
    </div>
  </section><!-- End Hero -->
  <main id="main">
    <!-- ===== About Section ====== -->
    <section id="about" class="about">
      <div class="container" data-aos="fade-up">
        <div class="row qx-0">
          <div class="col-lq-6 d-flex flex-column justify-content-center"</pre>
data-aos="fade-up" data-aos-delay="200">
            <div class="content">
              <h3>E-Car Start</h3>
              <h2>E-Cart Start is a complete analytics tool for electric
vehiles all over the world.</h2>
              >
                The Electric Vehicle (EV) is not new, but it has been
receiving significantly more attention in recent years. Advances in both EV
analytics and battery technologies have led to increased automotive market
share. The modern mechatronic vehicle marries electrical storage and
propulsion systems with electronic sensors, controls, and actuators,
integrated closely with software, secure data transfer, and data analysis, to
form a comprehensive transportation solution. Advances in all these areas
have contributed to the overall rise of EV's, but the common thread that runs
through all these elements is data analytics.
```

```
<div class="text-center text-lg-start">
                <a href="#" class="btn-read-more d-inline-flex align-items-
center justify-content-center align-self-center">
                  <span>Read More</span>
                  <i class="bi bi-arrow-right"></i>
              </div>
            </div>
          </div>
          <div class="col-lg-6 d-flex align-items-center" data-aos="zoom-out"</pre>
data-aos-delay="200">
            <img src="assets\img\EV.jpeg" class="img-fluid" alt="">
          </div>
        </div>
      </div>
    </section><!-- End About Section -->
    <!-- ====== Values Section ====== -->
    <section id="values" class="values">
      <div class="container" data-aos="fade-up">
        <header class="section-header">
          <h2>Dashboard</h2>
          E-Car Start Analytics Dashboard
        </header>
        <div class="row">
          <div class='tableauPlaceholder' id='viz1681365968296'</pre>
style='position: relative'><noscript><a href='#'><img alt='Dashboard 1 '
src='https://public.tableau.com/static/images/Elec
tricCarAnalyticsDashboard/Dashboard1/1 rss.png' style='border: none'
/></a></noscript><object class='tableauViz' style='display:none;'><param
name='host url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param</pre>
name='embed code version' value='3' /> <param name='site root' value=''</pre>
/><param name='name' value='ElectricCarAnalyticsDashboard&#47;Dashboard1'
/><param name='tabs' value='no' /><param name='toolbar' value='yes' /><param
name='static image'
value='https://public.tableau.com/static/images/El/El
ectricCarAnalyticsDashboard/Dashboard1/1.png' /> <param
name='animate transition' value='yes' /><param name='display static image'</pre>
value='yes' /><param name='display spinner' value='yes' /><param</pre>
name='display overlay' value='yes' /><param name='display count' value='yes'</pre>
/><param name='language' value='en-US' /></object></div>
<script type='text/javascript'>
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document.getElementById('viz1681365968296');
                                                               var
vizElement = divElement.getElementsByTagName('object')[0];
if ( divElement.offsetWidth > 800 ) {
vizElement.style.width='1320px';vizElement.style.height='2027px';} else if (
divElement.offsetWidth > 500 ) {
vizElement.style.width='1320px';vizElement.style.height='2027px';} else {
vizElement.style.width='100%';vizElement.style.height='2227px';}
var scriptElement = document.createElement('script');
```

```
scriptElement.src = 'https://public.tableau.com/javascripts/api/viz v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);
</script>
        </div>
      </div>
    </section><!-- End Values Section -->
    <!-- ===== Features Section ====== -->
    <section id="features" class="features">
      <div class="container" data-aos="fade-up">
        <header class="section-header">
          <h2>Features</h2>
          There are many different features of our project
        </header>
        <div class="row">
          <div class="col-lq-6">
            <img src="assets/img/features.png" class="img-fluid" alt="">
          </div>
          <div class="col-lg-6 mt-5 mt-lg-0 d-flex">
            <div class="row align-self-center gy-4">
              <div class="col-md-6" data-aos="zoom-out" data-aos-delay="200">
                <div class="feature-box d-flex align-items-center">
                  <i class="bi bi-check"></i>
                  <h3>Analyse the currect stats</h3>
                </div>
              </div>
              <div class="col-md-6" data-aos="zoom-out" data-aos-delay="300">
                <div class="feature-box d-flex align-items-center">
                  <i class="bi bi-check"></i>
                  <h3>Get to know EV more</h3>
                </div>
              </div>
              <div class="col-md-6" data-aos="zoom-out" data-aos-delay="400">
                <div class="feature-box d-flex align-items-center">
                  <i class="bi bi-check"></i>
                  <h3>Know about Charging Stations</h3>
                </div>
              </div>
              <div class="col-md-6" data-aos="zoom-out" data-aos-delay="500">
                <div class="feature-box d-flex align-items-center">
                  <i class="bi bi-check"></i>
                  <h3>Top performing Brands</h3>
                </div>
              </div>
              <div class="col-md-6" data-aos="zoom-out" data-aos-delay="600">
```

```
<div class="feature-box d-flex align-items-center">
                 <i class="bi bi-check"></i>
                 <h3>different brands in India</h3>
               </div>
             </div>
             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="700">
               <div class="feature-box d-flex align-items-center">
                 <i class="bi bi-check"></i>
                 <h3>different brands Globally</h3>
               </div>
             </div>
           </div>
         </div>
       </div> <!-- / row -->
       <!-- Feature Tabs -->
        <div class="row feture-tabs" data-aos="fade-up">
         <div class="col-lq-6">
           <h3>Overview of Electric Vehicle Sector</h3>
           <!-- Tabs -->
           <1i>>
               <a class="nav-link active" data-bs-toggle="pill"</pre>
href="#tab1">Overview</a>
             </1i>
             <1i>>
               <a class="nav-link active" data-bs-toggle="pill"</pre>
href="#tab2">Pricing</a>
             <!-- End Tabs -->
           <!-- Tab Content -->
           <div class="tab-content">
             <div class="tab-pane fade show active" id="tab1">
               The supply of fossil fuels is constantly decreasing. The
situation is very alarming. It is time for the world to slowly adapt to
electric vehicles. 
               <div class="d-flex align-items-center mb-2">
                 <i class="bi bi-check2"></i>
                 <h4>A lot of change needs to happen</h4>
               </div>
               Major carmakers like Tesla and Porsche manufacture many
electric vehicles. 
               <div class="d-flex align-items-center mb-2">
                 <i class="bi bi-check2"></i>
                 <h4> The improvement of battery technology in recent years
has led to the higher popularity of electric vehicles.</h4>
               </div>
               Suying an electric vehicle can be a great choice for
consumers. The drive quality, low noise levels, and convenience are really
great.
             </div><!-- End Tab 1 Content -->
```

```
<div class="tab-pane fade show" id="tab2">
                In the United States, one year of driving a petrol car
can cost from 1500 USD to 2500 USD.
               <div class="d-flex align-items-center mb-2">
                 <i class="bi bi-check2"></i>
                 <h4>On the other hand, the driving cost of Electric
Vehicles is 500 USD. Electric cars are more preferable.</h4>
               </div>
               The maintenance cost of electric vehicles is also very
low. They are economical to maintain.
               <div class="d-flex align-items-center mb-2">
                 <i class="bi bi-check2"></i>
                 <h4>The energy conversion efficiency of electric vehicles
is also high.</h4>
               </div>
               Electric vehicles use 60-70% of electrical energy. On the
other hand, vehicles based on internal combustion engines have an efficiency
of 18-22% only. The energy cost of manufacturing an electric vehicle is also
very high, but considering everything and the fact that charging electric
vehicles is very cheap, EVs are a great option. Manufacturing batteries is an
important task in the production of Electric vehicles.
             </div><!-- End Tab 2 Content -->
           </div>
         </div>
         <div class="col-lq-6">
            <img src="assets\img\e-car.jpg" style="height: 80%; width: 100%;"</pre>
class="img-fluid" alt="">
         </div>
       </div><!-- End Feature Tabs -->
      </div>
   </section><!-- End Features Section -->
    <!-- ===== Services Section ====== -->
    <section id="services" class="services">
      <div class="container" data-aos="fade-up">
       <header class="section-header">
         <h2>Story</h2>
          Electric vehicles Analytics Story
        </header>
       <div class="row gy-4">
         <div class='tableauPlaceholder' id='viz1681370481427'</pre>
style='position: relative'><noscript><a href='#'><img alt='Story of Electric
cars in India '
src='https://public.tableau.com/static/images/HW/HWJP
```

```
T2GJ2/1 rss.png' style='border: none' /></a></noscript><object
class='tableauViz' style='display:none;'><param name='host url'</pre>
name='embed code version' value='3' /> <param name='path'</pre>
name='static image'
value='https://public.tableau.com/static/images/HW/HW
JPT2GJ2/1.png' /> <param name='animate transition' value='yes' /><param</pre>
value='yes' /><param name='display_overlay' value='yes' /><param</pre>
name='display count' value='yes' /><param name='language' value='en-US'</pre>
/><param name='filter' value='publish=yes' /></object></div>
<script type='text/javascript'>
                                              var divElement =
document.getElementById('viz1681370481427');
                                                          var
vizElement = divElement.getElementsByTagName('object')[0];
vizElement.style.width='1016px';vizElement.style.height='991px';
var scriptElement = document.createElement('script');
scriptElement.src = 'https://public.tableau.com/javascripts/api/viz v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);
</script>
       </div>
     </div>
   </section><!-- End Services Section -->
   <!-- ===== Testimonials Section ====== -->
   <section id="testimonials" class="testimonials">
     <div class="container" data-aos="fade-up">
       <header class="section-header">
         <h2>Testimonials</h2>
         What they are saying about us
       </header>
       <div class="testimonials-slider swiper" data-aos="fade-up" data-aos-</pre>
delay="200">
         <div class="swiper-wrapper">
           <div class="swiper-slide">
             <div class="testimonial-item">
              <div class="stars">
                <i class="bi bi-star-fill"></i><i class="bi bi-star-</pre>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i
class="bi bi-star-fill"></i>
              </div>
                Proin iaculis purus consequat sem cure digni ssim donec
porttitora entum suscipit rhoncus. Accusantium quam, ultricies eget id,
aliquam eget nibh et. Maecen aliquam, risus at semper.
              <div class="profile mt-auto">
                <img src="assets/img/testimonials/testimonials-1.jpg"</pre>
class="testimonial-img" alt="">
                <h3>Saul Goodman</h3>
                <h4>Ceo &amp; Founder</h4>
```

```
</div>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-</pre>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i
class="bi bi-star-fill"></i>
                </div>
                >
                  Export tempor illum tamen malis malis eram quae irure esse
labore quem cillum quid cillum eram malis quorum velit fore eram velit sunt
aliqua noster fugiat irure amet legam anim culpa.
                <div class="profile mt-auto">
                  <img src="assets/img/testimonials/testimonials-2.jpg"</pre>
class="testimonial-img" alt="">
                  <h3>Sara Wilsson</h3>
                  <h4>Designer</h4>
                </div>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-</pre>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i
class="bi bi-star-fill"></i>
                </div>
                >
                  Enim nisi quem export duis labore cillum quae magna enim
sint quorum nulla quem veniam duis minim tempor labore quem eram duis noster
aute amet eram fore quis sint minim.
                <div class="profile mt-auto">
                  <img src="assets/img/testimonials/testimonials-3.jpg"</pre>
class="testimonial-img" alt="">
                  <h3>Jena Karlis</h3>
                  <h4>Store Owner</h4>
                </div>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-</pre>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i
class="bi bi-star-fill"></i>
                </div>
                >
                  Fugiat enim eram quae cillum dolore dolor amet nulla culpa
```

Fugiat enim eram quae cillum dolore dolor amet nulla culpa multos export minim fugiat minim velit minim dolor enim duis veniam ipsum anim magna sunt elit fore quem dolore labore illum veniam.

```
<div class="profile mt-auto">
                  <img src="assets/img/testimonials/testimonials-4.jpg"</pre>
class="testimonial-img" alt="">
                  <h3>Matt Brandon</h3>
                  <h4>Freelancer</h4>
                </div>
              </div>
            </div><!-- End testimonial item -->
            <div class="swiper-slide">
              <div class="testimonial-item">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-</pre>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i
class="bi bi-star-fill"></i>
                </div>
                >
                  Quis quorum aliqua sint quem legam fore sunt eram irure
aliqua veniam tempor noster veniam enim culpa labore duis sunt culpa nulla
illum cillum fugiat legam esse veniam culpa fore nisi cillum quid.
                <div class="profile mt-auto">
                  <img src="assets/img/testimonials/testimonials-5.jpg"</pre>
class="testimonial-img" alt="">
                  <h3>John Larson</h3>
                  <h4>Entrepreneur</h4>
                </div>
              </div>
            </div><!-- End testimonial item -->
          </div>
          <div class="swiper-pagination"></div>
        </div>
      </div>
    </section><!-- End Testimonials Section -->
    <!-- ===== Team Section ====== -->
    <section id="team" class="team">
      <div class="container" data-aos="fade-up">
        <header class="section-header">
          <h2>Team</h2>
          Our hard working team
        </header>
        <div class="row gy-4">
          <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-</pre>
aos="fade-up" data-aos-delay="100">
            <div class="member">
              <div class="member-img">
                <img src="assets/img/team/team-1.jpg" class="img-fluid"</pre>
alt="">
```

```
<div class="social">
                  <a href=""><i class="bi bi-twitter"></i></a>
                  <a href=""><i class="bi bi-facebook"></i></a>
                  <a href=""><i class="bi bi-instagram"></i></a>
                  <a href=""><i class="bi bi-linkedin"></i></a>
                </div>
              </div>
              <div class="member-info">
                <h4>Walter White</h4>
                <span>Chief Executive Officer</span>
                Velit aut quia fugit et et. Dolorum ea voluptate vel
tempore tenetur ipsa quae aut. Ipsum exercitationem iure minima enim corporis
et voluptate.
              </div>
            </div>
          </div>
          <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-</pre>
aos="fade-up" data-aos-delay="200">
            <div class="member">
              <div class="member-img">
                <img src="assets/img/team/team-2.jpg" class="img-fluid"</pre>
alt="">
                <div class="social">
                  <a href=""><i class="bi bi-twitter"></i></a>
                  <a href=""><i class="bi bi-facebook"></i></a>
                  <a href=""><i class="bi bi-instagram"></i></a>
                  <a href=""><i class="bi bi-linkedin"></i></a>
                </div>
              </div>
              <div class="member-info">
                <h4>Sarah Jhonson</h4>
                <span>Product Manager</span>
                Quo esse repellendus quia id. Est eum et accusantium
pariatur fugit nihil minima suscipit corporis. Voluptate sed quas reiciendis
animi neque sapiente.
              </div>
            </div>
          </div>
          <div class="col-lq-3 col-md-6 d-flex align-items-stretch" data-</pre>
aos="fade-up" data-aos-delay="300">
            <div class="member">
              <div class="member-img">
                <img src="assets/img/team/team-3.jpg" class="img-fluid"</pre>
alt="">
                <div class="social">
                  <a href=""><i class="bi bi-twitter"></i></a>
                  <a href=""><i class="bi bi-facebook"></i></a>
                  <a href=""><i class="bi bi-instagram"></i></a>
                  <a href=""><i class="bi bi-linkedin"></i></a>
                </div>
              </div>
              <div class="member-info">
                <h4>William Anderson</h4>
                <span>CTO</span>
```

```
Vero omnis enim consequatur. Voluptas consectetur unde qui
molestiae deserunt. Voluptates enim aut architecto porro aspernatur molestiae
modi.
              </div>
            </div>
          </div>
          <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-</pre>
aos="fade-up" data-aos-delay="400">
           <div class="member">
              <div class="member-img">
                <img src="assets/img/team/team-4.jpg" class="img-fluid"</pre>
alt="">
                <div class="social">
                  <a href=""><i class="bi bi-twitter"></i></a>
                  <a href=""><i class="bi bi-facebook"></i></a>
                  <a href=""><i class="bi bi-instagram"></i></a>
                  <a href=""><i class="bi bi-linkedin"></i></a>
                </div>
              </div>
              <div class="member-info">
                <h4>Amanda Jepson</h4>
                <span>Accountant
               Rerum voluptate non adipisci animi distinctio et deserunt
amet voluptas. Quia aut aliquid doloremque ut possimus ipsum officia.
              </div>
            </div>
          </div>
        </div>
      </div>
    </section><!-- End Team Section -->
    <!-- ===== Contact Section ====== -->
    <section id="contact" class="contact">
      <div class="container" data-aos="fade-up">
        <header class="section-header">
          <h2>Contact</h2>
          Contact Us
        </header>
        <div class="row gy-4">
          <div class="col-lq-6">
            <div class="row gy-4">
              <div class="col-md-6">
                <div class="info-box">
                  <i class="bi bi-geo-alt"></i>
                  <h3>Address</h3>
                  The Smartbridge<br/>Hyderabad, Telangana
                </div>
              </div>
```

```
<div class="col-md-6">
                <div class="info-box">
                  <i class="bi bi-telephone"></i></i>
                  <h3>Call Us</h3>
                  +1 5589 55488 55<br>+1 6678 254445 41
                </div>
              </div>
              <div class="col-md-6">
                <div class="info-box">
                  <i class="bi bi-envelope"></i></i>
                  <h3>Email Us</h3>
                  info@example.com<br>contact@example.com
                </div>
              </div>
              <div class="col-md-6">
                <div class="info-box">
                  <i class="bi bi-clock"></i>
                  <h3>Open Hours</h3>
                  Monday - Friday<br>9:00AM - 07:00PM
                </div>
              </div>
            </div>
          </div>
          <div class="col-lq-6">
            <div class="mapouter">
              <div class="gmap canvas">
                <iframe
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3806.4996128125663
!2d78.357789414877!3d17.435785388049602!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13
.1!3m3!1m2!1s0x3bcb93ccf4ea7cc1%3A0xebff7843c5e1e33f!2sStacknexus%20Technolog
ies%20Pvt%20Ltd!5e0!3m2!1sen!2sin!4v1671649820075!5m2!1sen!2sin" width="600"
height="450" style="border:0;" allowfullscreen="" loading="lazy"
referrerpolicy="no-referrer-when-downgrade"></iframe>
              </div>
              <style>.mapouter{position:relative;text-
align:right; width:600px; height:400px; }.gmap canvas
{overflow:hidden;background:none!important;width:600px;height:400px;}.gmap if
rame {width:600px!important;height:400px!important;}</style>
            </div>
          </div>
        </div>
      </div>
    </section><!-- End Contact Section -->
  </main><!-- End #main -->
  <!-- ===== Footer ===== -->
  <footer id="footer" class="footer">
    <div class="footer-top">
```

```
<div class="container">
        <div class="row gy-4">
          <div class="col-lg-5 col-md-12 footer-info">
            <a href="index.html" class="logo d-flex align-items-center">
             <img src="assets/img/logo.png" alt="">
             <span>E-CarStart</span>
            We offer modern Analytics solutions for Electric Vehicles.
            <div class="social-links mt-3">
             <a href="#" class="twitter"><i class="bi bi-twitter"></i></a>
             <a href="#" class="facebook"><i class="bi bi-facebook"></i></a>
             <a href="#" class="instagram"><i class="bi bi-
instagram"></i></a>
             <a href="#" class="linkedin"></i>class="bi bi-linkedin"></i></a>
            </div>
          </div>
         <div class="col-lg-2 col-6 footer-links">
            <h4>Useful Links</h4>
           <111>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="#">Home</a>
             <i class="bi bi-chevron-right"></i> <a href="#">About
us</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="#">Services</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="#">Dashboard</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="#">Story</a>
            </div>
         <div class="col-lg-2 col-6 footer-links">
           <h4>Our Services</h4>
           <l
             <i class="bi bi-chevron-right"></i> <a</pre>
href="https://www.thesmartbridge.com/">Web Design</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="https://www.thesmartbridge.com/">Web Development</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="https://www.thesmartbridge.com/">Product Management</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="https://www.thesmartbridge.com/">Marketing</a>
             <i class="bi bi-chevron-right"></i> <a</pre>
href="https://www.thesmartbridge.com/">Graphic Design</a>
            </div>
         <div class="col-lg-3 col-md-12 footer-contact text-center text-md-</pre>
start">
           <h4>Contact Us</h4>
            >
             The Smartbridge <br>
             Hyderabad<br>
             Telangana<br><br>
             <strong>Phone:</strong> +1 5589 55488 55<br>
```

```
<strong>Email:</strong> info@example.com<br>
           </div>
       </div>
      </div>
    </div>
    <div class="container">
      <div class="copyright">
       © Copyright <strong><span>Smartbridge</span></strong>. All
Rights Reserved
     </div>
    </div>
  </footer><!-- End Footer -->
  <a href="#" class="back-to-top d-flex align-items-center justify-content-
center"><i class="bi bi-arrow-up-short"></i></a>
  <!-- Vendor JS Files -->
  <script src="assets/vendor/purecounter/purecounter vanilla.js"></script>
  <script src="assets/vendor/aos/aos.js"></script>
  <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
  <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
  <script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
  <script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
  <script src="assets/vendor/php-email-form/validate.js"></script>
  <!-- Template Main JS File -->
  <script src="assets/js/main.js"></script>
</body>
</html>
```

THANK YOU