PROJECT REPORT TEMPLATE

1.INTRODUCTION

1.1 OVERVIEW:

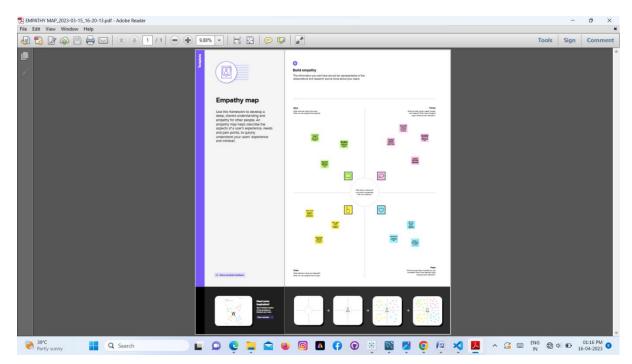
An electric vehicle (EV) is a vehicle that uses one or more electric motors for propulsion. It can be powered by a collector system with electricity from extravehicular sources or it can be powered automatically by a battery. In this project, we will visualize and analysis Electric Vehicle charge and range in India and in globally.

1.2 PURPOSE:

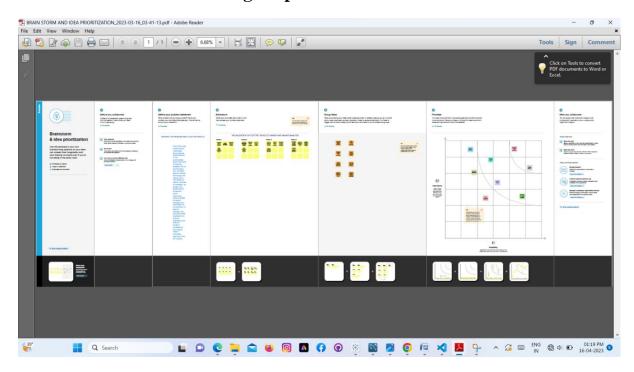
The project helps to know well about electric vehicles, in India and in other countries the price range of electric cars corresponding o their companies, Charing stations present in Indian speed of cars for different brands Body style of cars, efficiency and etc...

2. Problem Definition & Design Thinking

2.1 Empathy Map:

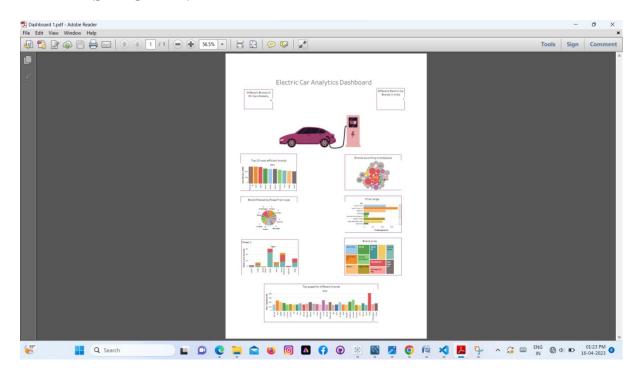


2.2 Ideation & Brainstorming Map:

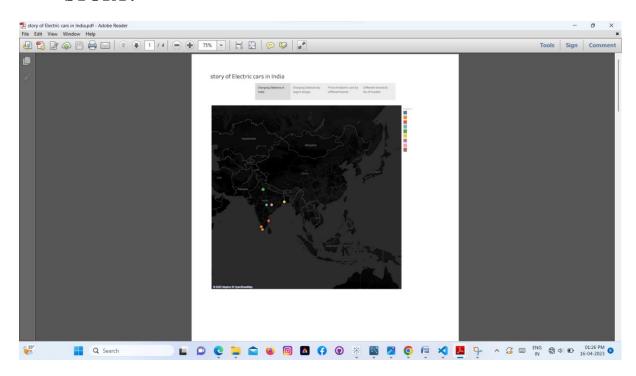


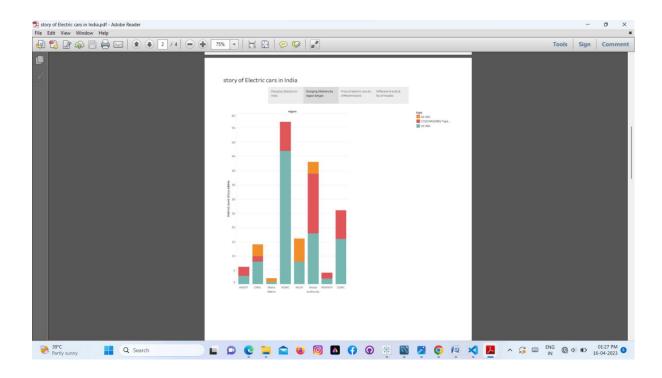
3. RESULT

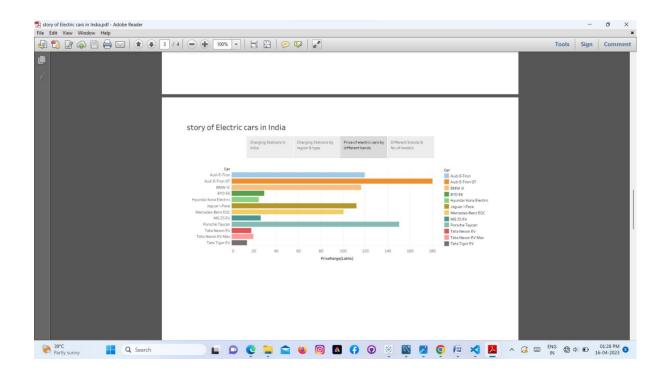
DASHBOARD:

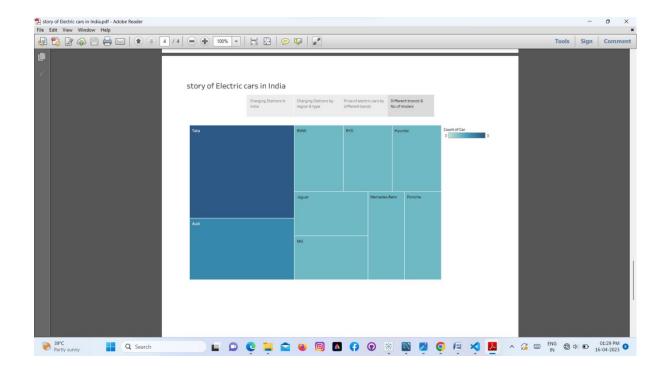


STORY:









4. ADVANTAGES & DISADVANTAGES

ADVANTAGES:

By this project, the advantages of sing electric Vehicles are,

i. Lower maintenance due to an efficient electric motor.

ii. Better Performance as th electric cars are lighter and also it has faster acceleration.

DISADVANTAGES:

From this project we notice that there are only limited charging stations in India and Hence we need to tavel long distance to chare our vehicles.

5. APPLICATIONS

By this project,

The visualization of electric vehicles helps to collect, process and analyse the date of electric Vehicles, It is useful for both drivers and consumers.

6. CONCLUSION

We have analysed about the Visualization tool for electric vehicle, and the project includes, the total electric vehicle brands in India and globally, Most efficient brands, brands according to body style, Price range according to body style, charging stations in India, etc...

7.FUTURE SCOPE

By this project, it makes helfpul for the future brands and companies to develop the skills of electric Vehicles.

8 APPENDIX

Source Code:

```
<title>Electric Cars Analytics</title>
 <meta content="" name="description">
 <meta content="" name="keywords">
 <link href="assets/img/favicon.png" rel="icon">
 <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Nunito:300,300i,4
00,400i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
 <link href="assets/vendor/aos/aos.css" rel="stylesheet">
 <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
 <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
 <link href="assets/vendor/glightbox/css/glightbox.min.css" 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 URL: https://bootstrapmade.com/flexstart-bootstrap-startup-template/
 * Author: BootstrapMade.com
   <div class="container-fluid container-xl d-flex align-items-center 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>
     <nav id="navbar" class="navbar">
         <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 Started</a>
       <i class="bi bi-list mobile-nav-toggle"></i></i>
 </header><!-- End Header -->
 <section id="hero" class="hero d-flex align-items-center">
   <div class="container">
     <div class="row">
       <div class="col-lg-6 d-flex flex-column justify-content-center">
         <h1 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-
                <span>Get Started</span>
                <i class="bi bi-arrow-right"></i>
        <div class="col-lg-6 hero-img" data-aos="zoom-out" data-aos-delay="200">
         <img src="assets\img\12085817_20944306.jpg" class="img-fluid" alt="">
  </section><!-- End Hero -->
  <main id="main">
    <section id="about" class="about">
      <div class="container" data-aos="fade-up">
        <div class="row gx-0">
          <div class="col-lg-6 d-flex flex-column justify-content-center" data-aos="fade-up" data-aos-</pre>
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</pre>
                 <span>Read More</span>
                 <i class="bi bi-arrow-right"></i>
          <div class="col-lg-6 d-flex align-items-center" data-aos="zoom-out" data-aos-delay="200">
           <img src="assets\img\EV.jpeg" class="img-fluid" alt="">
    </section><!-- End About 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
```

```
<div class="row">
         <div class='tableauPlaceholder' id='viz1681481728055' style='position: relative'><noscript><a</pre>
href='#'><img alt='Dashboard 1 '</pre>
src='https://public.tableau.com/static/images/Bo/Bo/Bo/Bo/Dashboard1&
#47;1_rss.png' style='border: none' /></a></noscript><object class='tableauViz' style='display:none;'><param
<param name='site root' value='' /><param name='name' value='Book1_16814676104110&#47;Dashboard1' /><param</pre>
name='tabs' value='no' /><param name='toolbar' value='yes' /><param name='static_image'</pre>
value='https://public.tableau.com/static/images/Bo/Book1_16814676104110/Dashboard
1/1.png' /> <param name='animate_transition' value='yes' /><param name='display_static_image' value='yes'
divElement = document.getElementById('viz1681481728055');
                                                                     var vizElement =
                                                          if ( divElement.offsetWidth > 800 ) {
divElement.getElementsByTagName('object')[0];
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='2727px';}
                                                                            var scriptElement =
document.createElement('script');
                                               scriptElement.src =
https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement, vizElement);
                                                                      </script>
   </section><!-- End Values 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
         <div class="col-lg-6">
          <img src="assets/img/features.png" class="img-fluid" alt="">
         <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 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></i>
                <h3>Get to know EV more</h3>
            <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>
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</div>
             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="500">
                 <i class="bi bi-check"></i>
                 <h3>Top performing Brands</h3>
             <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 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></i>
                 <h3>different brands Globally</h3>
       <div class="row feture-tabs" data-aos="fade-up">
           <h3>Overview of Electric Vehicle Sector</h3>
           <a class="nav-link active" data-bs-toggle="pill" href="#tab1">Overview</a>
               <a class="nav-link active" data-bs-toggle="pill" href="#tab2">Pricing</a>
           <!-- 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">
                 <h4>A lot of change needs to happen</h4>
               Major carmakers like Tesla and Porsche manufacture many electric vehicles. 
               <div class="d-flex align-items-center mb-2">
                 <h4> The improvement of battery technology in recent years has led to the higher popularity
of electric vehicles.</h4>
               <p>Buying an electric vehicle can be a great choice for consumers. The drive quality, low
noise levels, and convenience are really great.
             <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>
               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>
                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 class="col-lg-6">
           <img src="assets\img\e-car.jpg" style="height: 80%; width: 100%;" class="img-fluid" alt="">
    <section id="services" class="services">
     <div class="container" data-aos="fade-up">
        <header class="section-header">
         <h2>Storv</h2>
         Electric vehicles Analytics Story
       <div class="row gy-4">
          <div class='tableauPlaceholder' id='viz1681468905542' style='position: relative'><noscript><a</pre>
href='#'><img alt='story of Electric cars in India '</pre>
src='https://public.tableau.com/static/images/st8#47;story_16814678413350/storyofElec
triccarsinIndia/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='' /><param name='name'</pre>
value='story_16814678413350/storyofElectriccarsinIndia' /><param name='tabs' value='no' /><param</pre>
name='toolbar' value='yes' /><param name='static_image'</pre>
value='https://public.tableau.com/static/images/st/story_16814678413350/storyofEl
ectriccarsinIndia/1.png' /> <param name='animate_transition' value='yes' /><param
name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param</pre>
name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language'</pre>
value='en-US' /><param name='filter' value='publish=yes' /></object></div>
type='text/javascript'>
                                          var divElement = document.getElementById('viz1681468905542');
              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>
```

```
</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
       <div class="testimonials-slider swiper" data-aos="fade-up" data-aos-delay="200">
         <div class="swiper-wrapper">
              <div class="testimonial-item">
                <div class="stars">
                 <i class="bi bi-star-fill"></i><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>
                 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" class="testimonial-img" alt="">
                 <h3>Saul Goodman</h3>
                 <h4>Ceo &amp; Founder</h4>
           </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-fill"></i><i class="bi bi-star-fill"></i></i>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
                 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" class="testimonial-img" alt="">
                 <h3>Sara Wilsson</h3>
                 <h4>Designer</h4>
           <div class="swiper-slide">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i></i>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
                 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" class="testimonial-img" alt="">
                  <h3>Jena Karlis</h3>
                  <h4>Store Owner</h4>
```

```
</div><!-- End testimonial item -->
              <div class="testimonial-item">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i></i>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i></i></i>
                  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.
                 <img src="assets/img/testimonials/testimonials-4.jpg" class="testimonial-img" alt="">
                  <h3>Matt Brandon</h3>
                  <h4>Freelancer</h4>
              <div class="testimonial-item">
                <div class="stars">
                  <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i></i>
fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
                  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" class="testimonial-img" alt="">
                  <h3>John Larson</h3>
                  <h4>Entrepreneur</h4>
          <div class="swiper-pagination"></div>
    </section><!-- End Testimonials Section -->
      <div class="container" data-aos="fade-up">
        <header class="section-header">
         <h2>Team</h2>
          Our hard working team
        <div class="row gy-4">
          <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-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" 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 class="member-info">
               <h4>Walter White</h4>
                <span>Chief Executive Officer</span>
                <P>Velit aut quia fugit et et. Dolorum ea voluptate vel tempore tenetur ipsa quae aut. Ipsum
exercitationem iure minima enim corporis et voluptate.
          <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="200">
             <div class="member-img">
               <img src="assets/img/team/team-2.jpg" class="img-fluid" alt="">
               <div class="social">
                 <a href=""><i class="bi bi-twitter"></i></a>
                 <a href=""><i class="bi bi-instagram"></i>
                 <a href=""><i class="bi bi-linkedin"></i></a>
              <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 class="col-lg-3 col-md-6 d-flex align-items-stretch" data-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" 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 class="member-info">
               <h4>William Anderson</h4>
               Vero omnis enim consequatur. Voluptas consectetur unde qui molestiae deserunt. Voluptates
enim aut architecto porro aspernatur molestiae modi.
          <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-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" alt="">
                 <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 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 class="container" data-aos="fade-up">
       <header class="section-header">
         <h2>Contact</h2>
         Contact Us
       <div class="row gy-4">
         <div class="col-lg-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 class="col-md-6">
                 <h3>Call Us</h3>
                 +1 5589 55488 55<br>+1 6678 254445 41
             <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 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 class="col-lg-6">
           <div class="mapouter">
             <div class="gmap_canvas">
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3806.4996128125663!2d78.357789414877!3d17.43578538
8049602!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3bcb93ccf4ea7cc1%3A0xebff7843c5e1e33f!2sStacknexu
s%20Technologies%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_iframe
{width:600px!important;height:400px!important;}</style>
  </main><!-- End #main -->
  <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.
             <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 class="col-lg-2 col-6 footer-links">
           <h4>Useful Links</h4>
             <i class="bi bi-chevron-right"></i> <a href="#">Home</a>
             <i class="bi bi-chevron-right"></i> <a href="#">About us</a>
             <i class="bi bi-chevron-right"></i> <a href="#">Services</a>
             <i class="bi bi-chevron-right"></i> <a href="#">Dashboard</a>
             <i class="bi bi-chevron-right"></i> <a href="#">Story</a>
         <div class="col-lg-2 col-6 footer-links">
           <h4>Our Services</h4>
             <i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Web
Design</a>
             <i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Web
Development
             <i class="bi bi-chevron-right"></i> <a 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 href="https://www.thesmartbridge.com/">Graphic
Design</a>
         <div class="col-lg-3 col-md-12 footer-contact text-center text-md-start">
           <h4>Contact Us</h4>
```