

Dr.ZAKIR HUSAIN COLLEGE, ILAYANGUDI

P.G DEPARTMENT OF MATHEMATICS

VISUALIZATION TOOL FOR ELECTRIC VEHICLE CHARGE AND RANGE

ANALYSIS

SUBMITTED BY,

NAME OF THE STUDENT	UNIVERSITY REG.NO	NAANMUDHALVAN ID	SMARTINTERNZ TEAM ID
PAZHANEESWARI.S	0620121038	asalu6620121038	NM2023TMID09481
PONMOZHI.I.V	0620121039	asalu6620121039	NM2023TMID09481
NISHANTHI.S	0620121033	asalu6620121033	NM2023TMID09481
JAZEERA NURUL SAHANA.M	0620121019	asalu6620121019	NM2023TMID09481

FACULTY INCHARGE ,

Dr.B.FATHIMA KANI,

ASSISTANT PROFESSOR,

DEPARTMENT OF MATHEMATICS,

Dr.ZAKIR HUSAIN COLLEGE,ILAYANGUDI.

1.INTRODUCTION

1.1 OVERVIEW

A vehicle that can be powered by an electric motor that draws electricity from a battery and is capable of being charged from an external source and have an electric motor instead of an internal combustion engine. 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. However, this growth is not attributed to hardware alone. 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.

1.2 PURPOSE

The new EV's are combined Electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer to form a comprehensive transportation solution. Electric vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesel. Electric vehicles are more efficient, and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements.

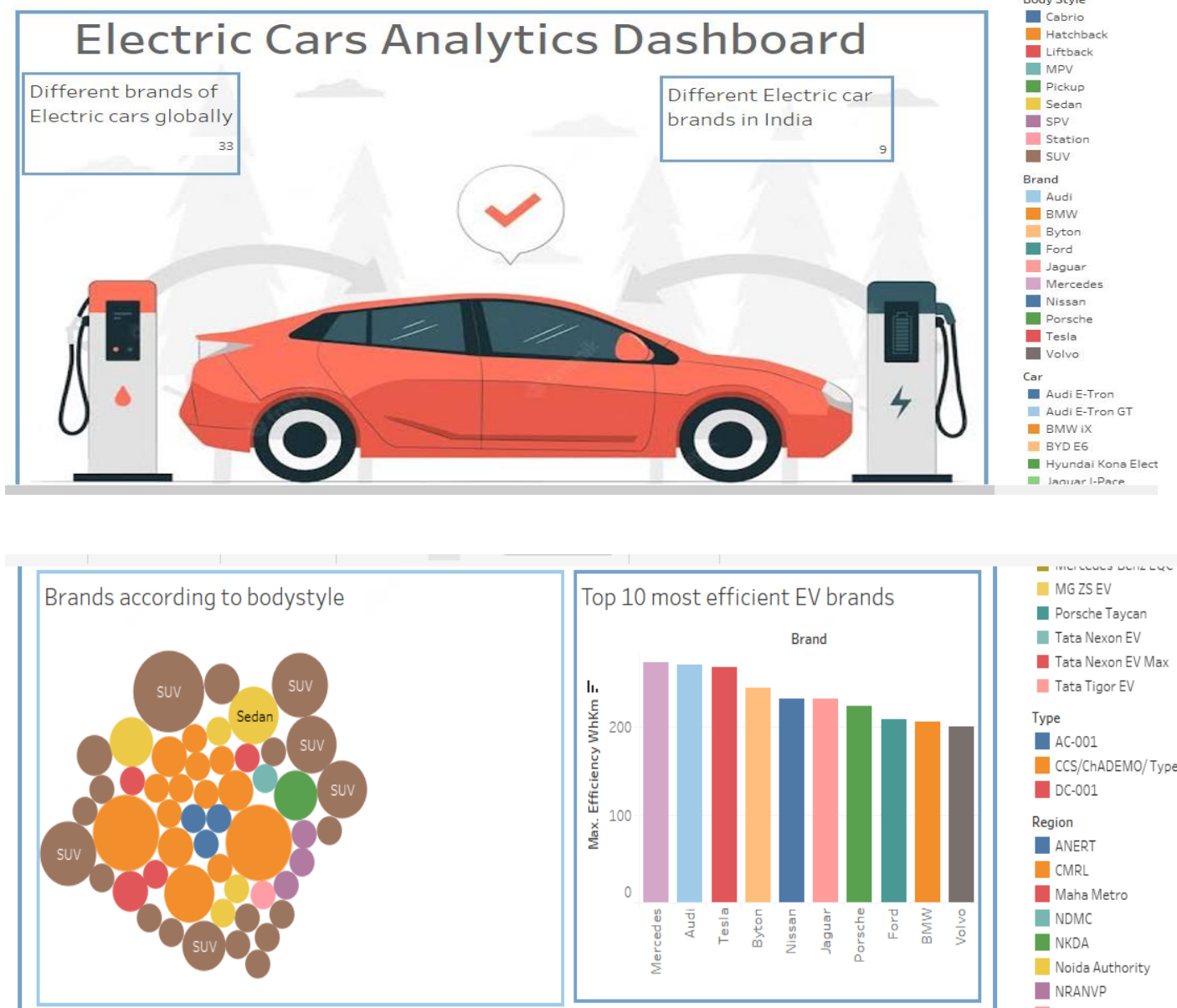
2. PROBLEM DEFINITION & DESIGN THINKING

2.1 EMPATHY MAP

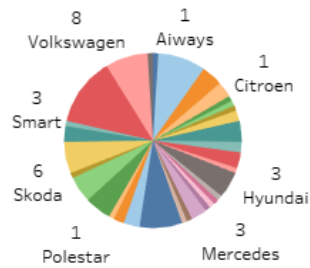


[illegible]

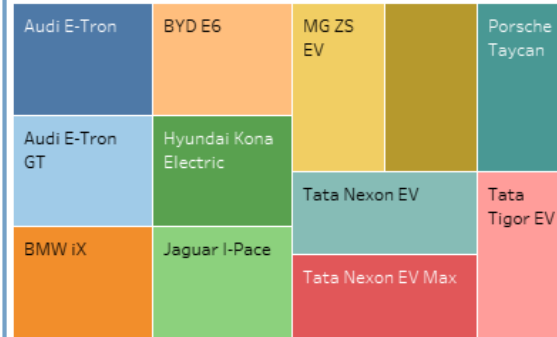
3. RESULT



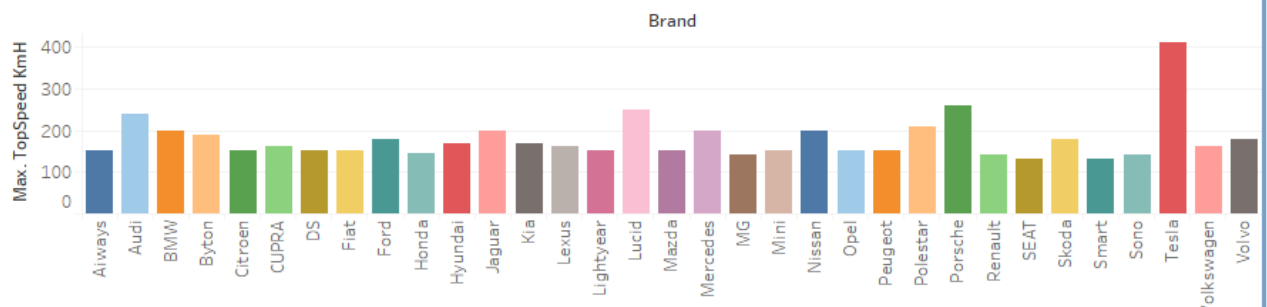
No of models by each brand



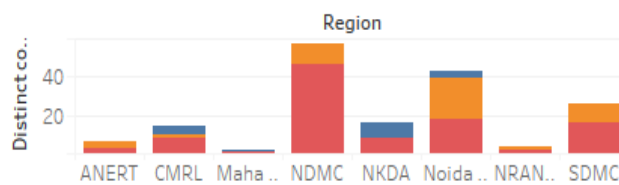
Different EV cars in India



Top speed for different brands



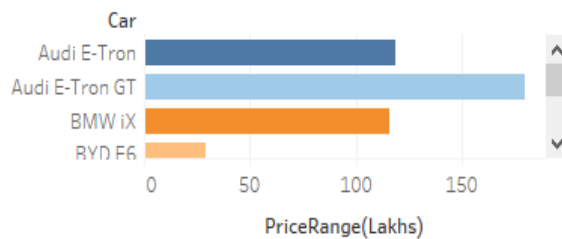
Charging stations by region and type in India



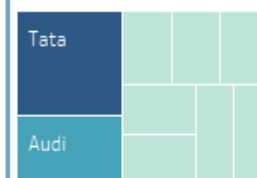
EV Charging stations map of India



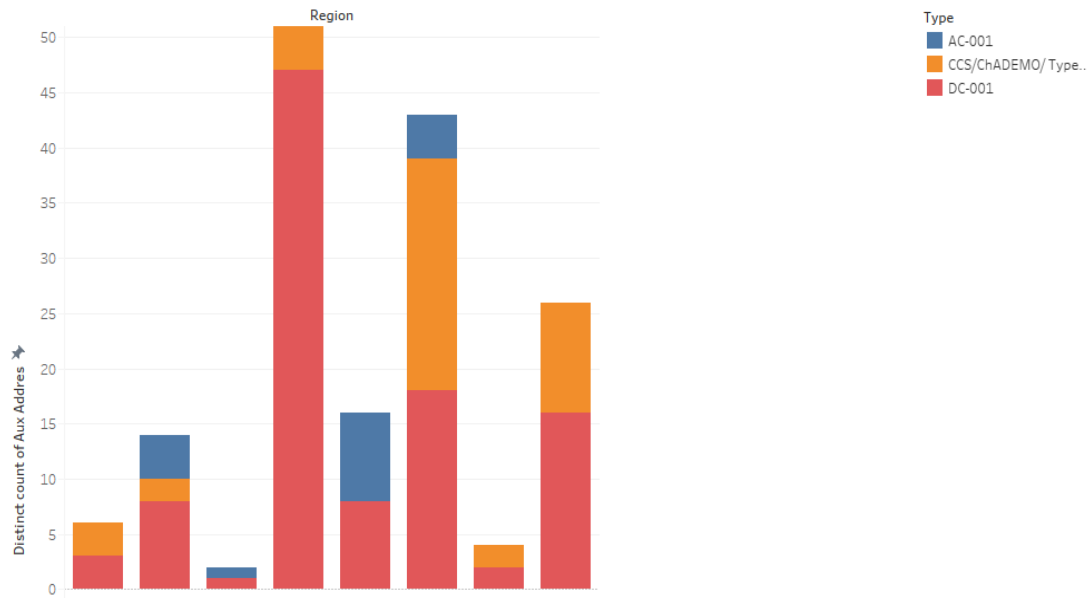
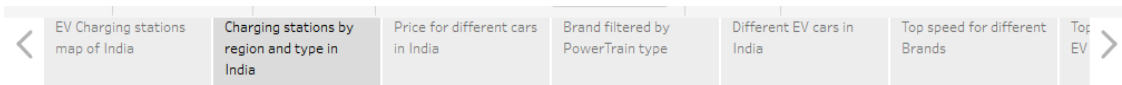
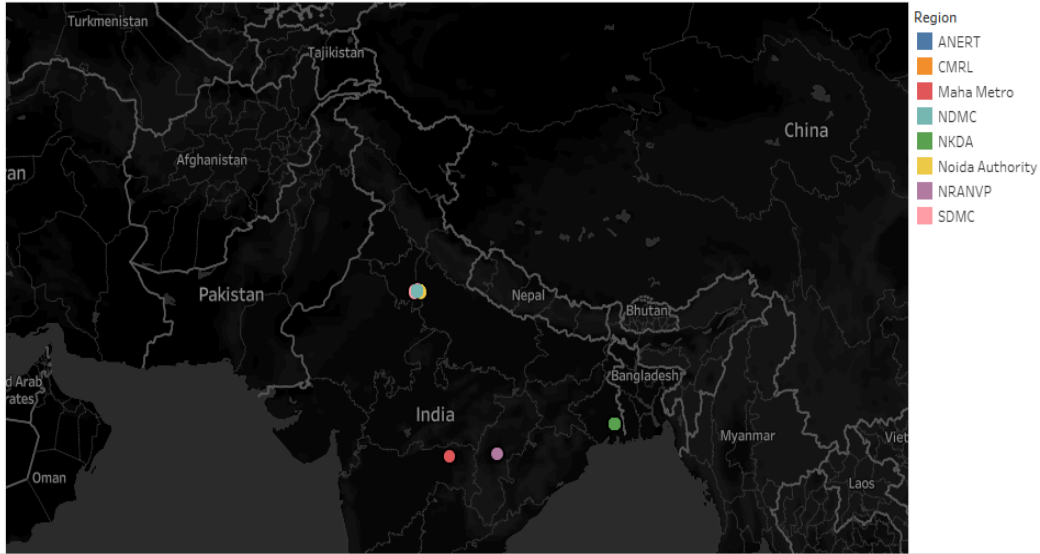
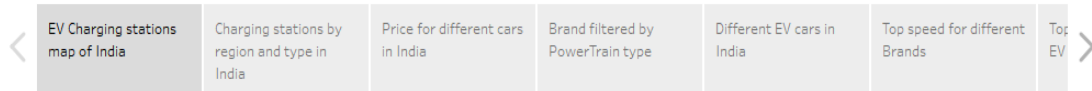
Price for different cars in India

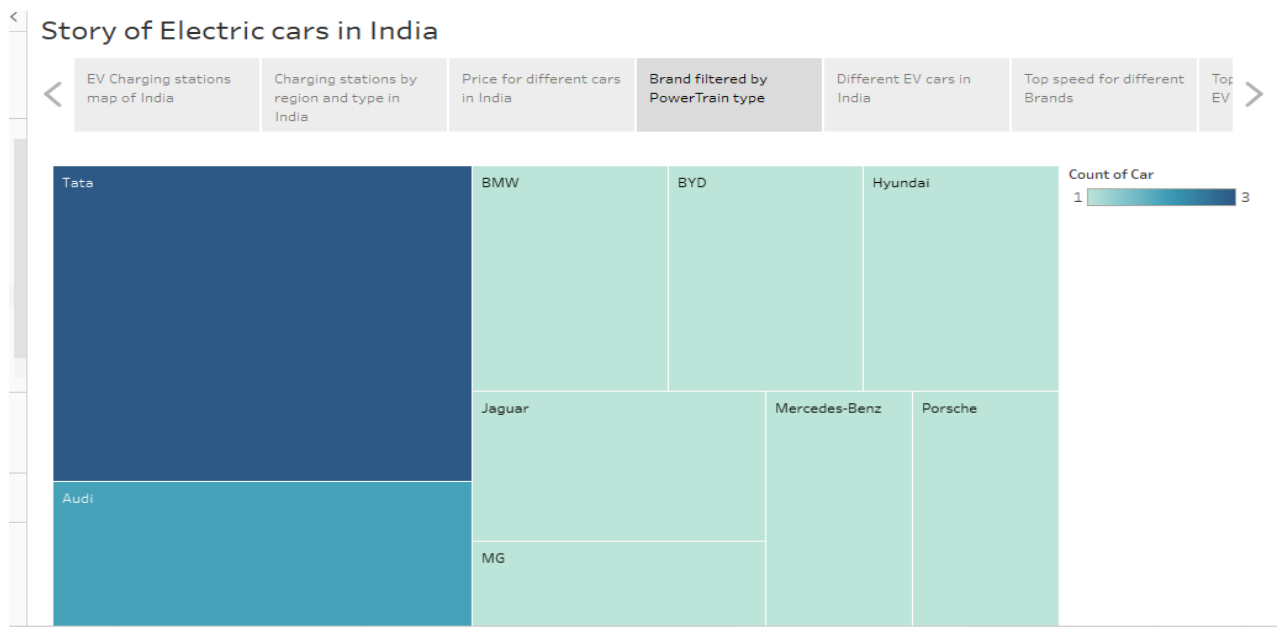


Brand filtered by power train type

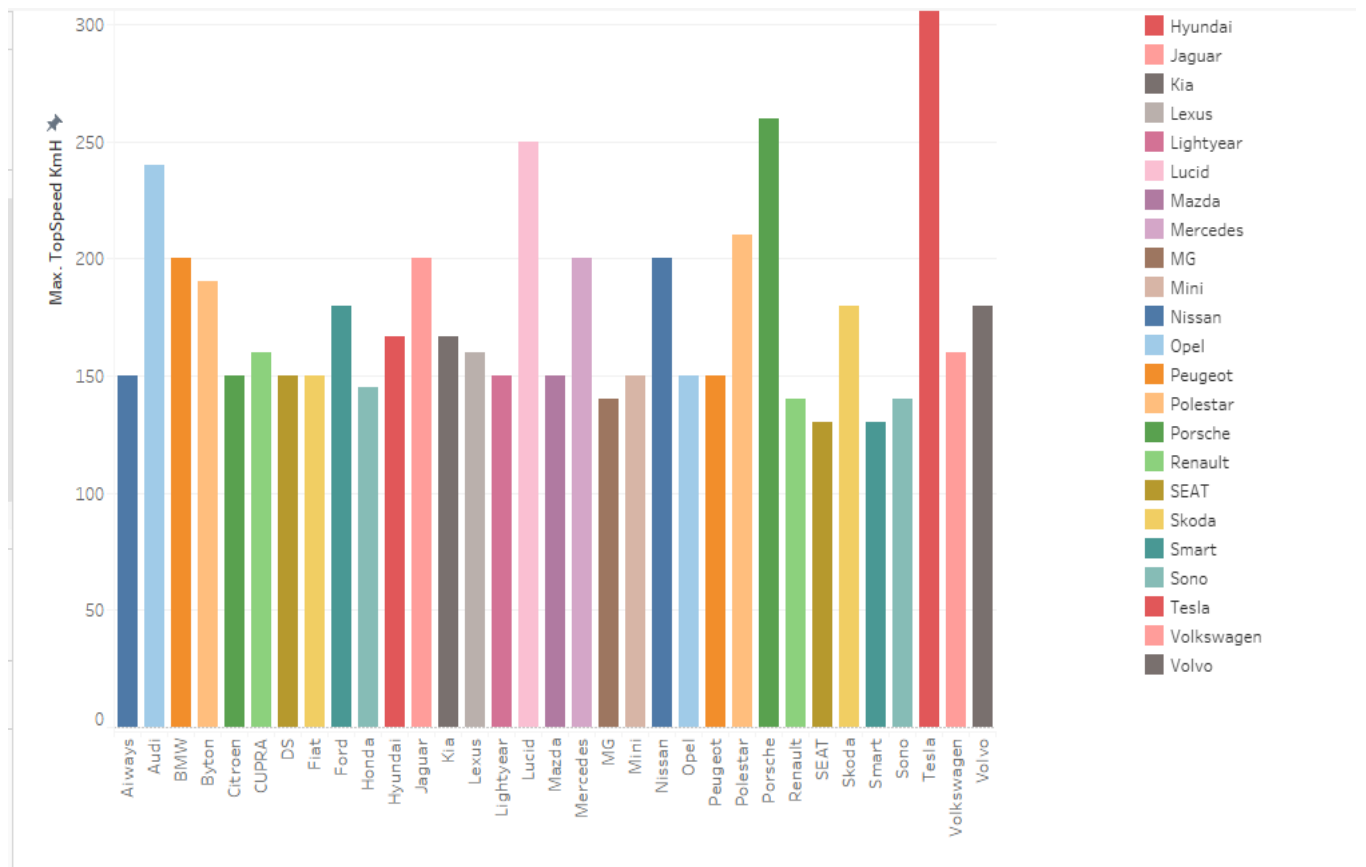
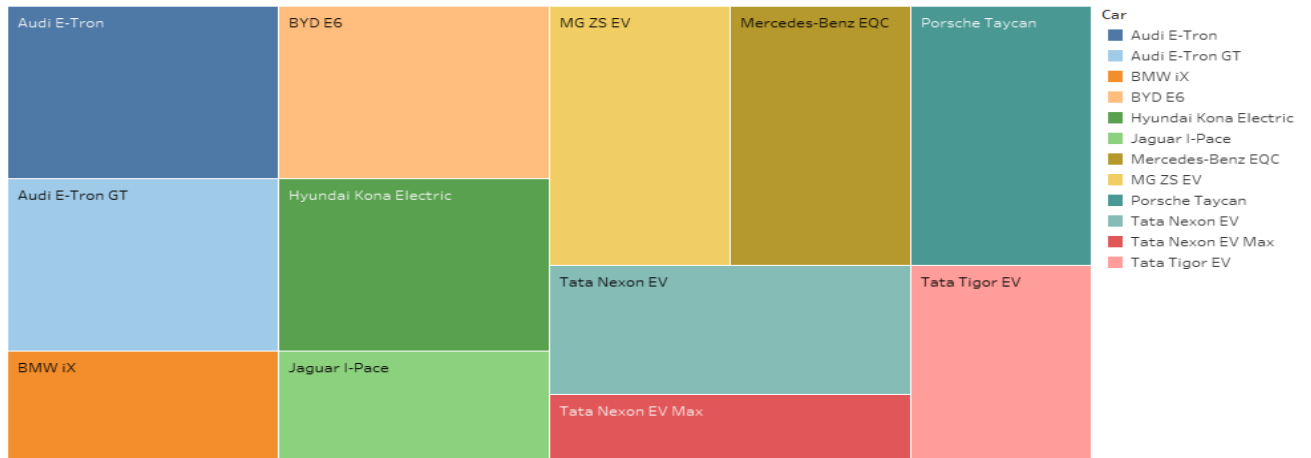
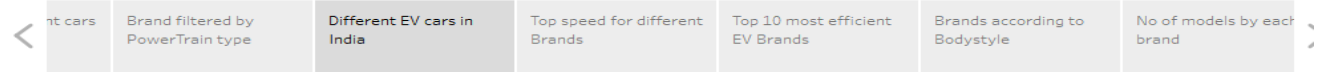


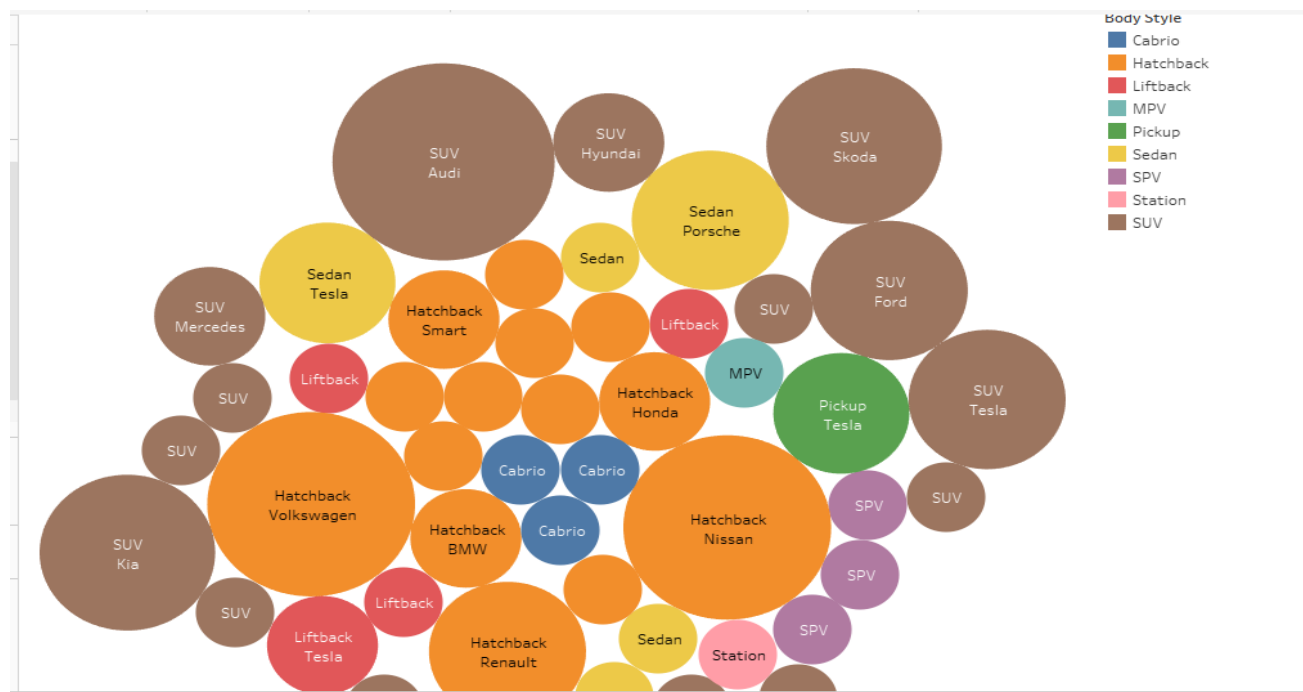
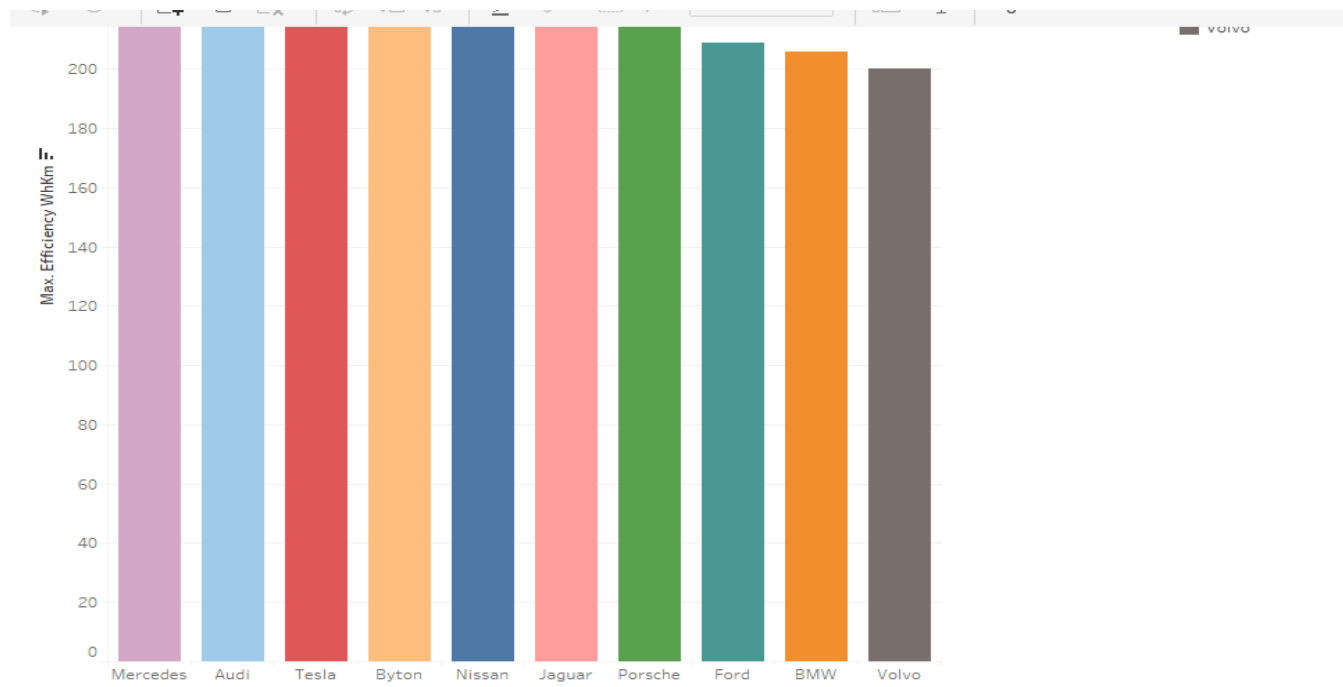
Story of Electric cars in India

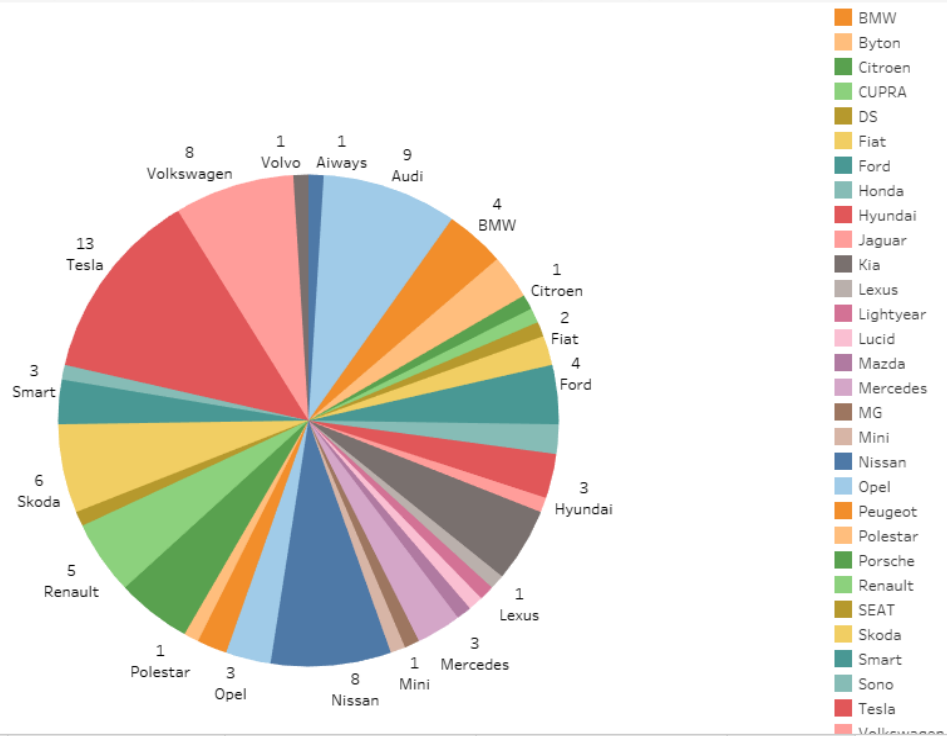




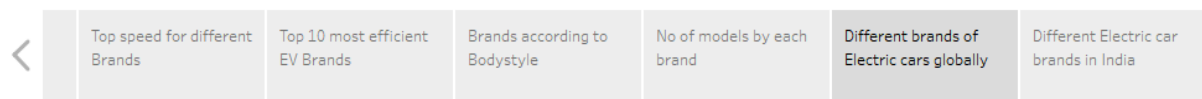
Story of Electric cars in India





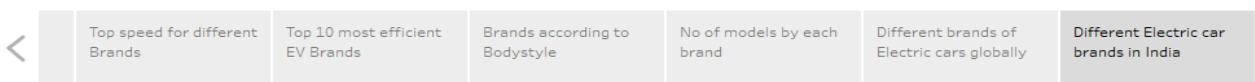


Story of Electric cars in India



33

Story of Electric cars in India



9

4. ADVANTAGES

The running cost of an electric vehicle is much lower than an equivalent petrol or diesel vehicle. Electric vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesel. Electric vehicles are more efficient, and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements. Using renewable energy sources can make the use of electric vehicles more eco-friendly. The electricity cost can be reduced further if charging is done with the help of renewable energy sources installed at home, such as solar panels. Electric vehicles have very low maintenance costs because they don't have as many moving parts as an internal combustion vehicle. The servicing requirements for electric vehicles are lesser than the conventional petrol or diesel vehicles. Therefore, the yearly cost of running an electric vehicle is significantly low.

5. DISADVANTAGES

The average petrol car can easily do four or five hundred miles on a tank of petrol. A diesel car might do closer to 700 miles. The all-electric [Peugeot e-208](#) on the other hand needs recharging every 217 miles. Filling up your petrol or diesel car can take just 5 minutes. [Charging your EV](#) can take anything from 30 minutes to an hour using the latest public rapid chargers. You may be twiddling your thumbs for an entire day if you are using a standard domestic socket.

5. APPLICATION

The electromagnetic simulation is an integral part of the physical modeling and simulation of electric and hybrid vehicles. Whether it is the modeling of the battery, the electric motor, the various electromechanical components, the power electronics components, the various antennas and communication systems, the electromagnetic simulation is indispensable. Together, EMS and HFWorks, and their Multiphysics capabilities empower you, the electric vehicle engineer, to design more efficient and less expensive your electric vehicle. In this section, several simulation examples where EMS and HFWorks are used to model several parts and components used in electric and hybrid vehicles are shown.

6. conclusion

EVs make a good case as a viable choice for an inexpensive driving experience with a per litre of gasoline really above the 81 Tanks in Delhi. The progress that the electric vehicle industry has seen in recent years is not only extremely welcomed, but highly necessary in light of the increasing ..

7. FUTURE SCOPE

Most Indian buyers believe that an electric vehicle 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 countries, with the global average tipping price for EVs being \$36,000. (around Rs27 lakh). The cost of lithium-ion batteries is roughly \$250/kWh globally, which translates to approximately Rs5.7 lakh in battery prices alone. Currently, lithium-ion batteries account for half of the cost of an electric vehicle, making them more expensive than conventional vehicles.

8.APPENDIX

```
1
2
3
4
5
6   initial-scale=1.0" name="viewport">
7
8   >
9
10
11
12
13
14   el="icon">
15   on.png" rel="apple-touch-icon">
16
17
18   com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Nunito:300,300i,400,400i,600,600i,700,700i|Pop
19
20
21   " rel="stylesheet">
22   ss/bootstrap.min.css" rel="stylesheet">
23   cons/bootstrap-icons.css" rel="stylesheet">
24   ss/glightbox.min.css" rel="stylesheet">
25   emixicon.css" rel="stylesheet">
26   er-bundle.min.css" rel="stylesheet">
27
28
29   ="stylesheet">
30
31   =====
```

```

31 <!-- =====
32 * Template Name: FlexStart - v1.12.0
33 * Template URL: https://bootstrapmade.com/flexstart-bootstrap-startup-template/
34 * Author: BootstrapMade.com
35 * License: https://bootstrapmade.com/license/
36 ===== -->
37 </head>
38
39 <body>
40
41 <!-- ===== Header ===== -->
42 <header id="header" class="header fixed-top">
43   <div class="container-fluid container-xl d-flex align-items-center justify-content-between">
44
45     <a href="index.html" class="logo d-flex align-items-center">
46       
47       <span>E-CarStart</span>
48     </a>
49
50     <nav id="navbar" class="navbar">
51       <ul>
52         <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
53         <li><a class="nav-link scrollto" href="#about">About</a></li>
54         <li><a class="nav-link scrollto" href="#values">Dashboard</a></li>
55         <li><a class="nav-link scrollto" href="#services">Story</a></li>
56         <li><a class="nav-link scrollto" href="#team">Team</a></li>
57         <li><a class="nav-link scrollto" href="#contact">Contact</a></li>
58         <li><a class="getstarted scrollto" href="#about">Get Started</a></li>
59       </ul>
60       <i class="bi bi-list mobile-nav-toggle"></i>
61     </nav><!-- .navbar -->

```

```

62
63   </div>
64 </header><!-- End Header -->
65
66 <!-- ===== Hero Section ===== -->
67 <section id="hero" class="hero d-flex align-items-center">
68
69   <div class="container">
70     <div class="row">
71       <div class="col-lg-6 d-flex flex-column justify-content-center">
72         <h1 data-aos="fade-up">We offer modern Analytics solutions for Electric Vehicles</h1>
73
74         <div data-aos="fade-up" data-aos-delay="600">
75           <div class="text-center text-lg-start">
76             <a href="#about" class="btn-get-started scrollto d-inline-flex align-items-center justify-content-
77               <span>Get Started</span>
78               <i class="bi bi-arrow-right"></i>
79             </a>
80           </div>
81         </div>
82       </div>
83       <div class="col-lg-6 hero-img" data-aos="zoom-out" data-aos-delay="200">
84         
85       </div>
86     </div>
87   </div>
88
89 </section><!-- End Hero -->
90
91 <main id="main">
92 <!-- ===== About Section ===== -->

```

```

93     <section id="about" class="about">
94
95         <div class="container" data-aos="fade-up">
96             <div class="row gx-0">
97
98                 <div class="col-lg-6 d-flex flex-column justify-content-center" data-aos="fade-up" data-aos-delay=
99                     <div class="content">
100                         <h3>E-Car Start</h3>
101                         <h2>E-Cart Start is a complete analytics tool for electric vehiles all over the world.</h2>
102                         <p>
103                             The Electric Vehicle (EV) is not new, but it has been receiving significantly more attention
104                         </p>
105                         <div class="text-center text-lg-start">
106                             <a href="#" class="btn-read-more d-inline-flex align-items-center justify-content-center ali
107                                 <span>Read More</span>
108                                 <i class="bi bi-arrow-right"></i>
109                             </a>
110                         </div>
111                     </div>
112                 </div>
113
114                 <div class="col-lg-6 d-flex align-items-center" data-aos="zoom-out" data-aos-delay="200">
115                     
116                 </div>
117             </div>
118         </div>
119     </section><!-- End About Section -->
120
121 <!-- ===== Values Section ===== -->
122
123 <!-- ===== Values Section ===== -->

```

```

124 <section id="values" class="values">
125
126     <div class="container" data-aos="fade-up">
127
128         <header class="section-header">
129             <h2>Dashboard</h2>
130             <p>E-Car Start Analytics Dashboard</p>
131         </header>
132
133         <div class="row">
134
135             <div class='tableauPlaceholder' id='viz1671689536453' style='position: relative'><noscript><a href=
136             </div>
137         </div>
138     </div>
139 </section><!-- End Values Section -->
140
141 <!-- ===== Features Section ===== -->
142 <section id="features" class="features">
143
144     <div class="container" data-aos="fade-up">
145
146         <header class="section-header">
147             <h2>Features</h2>
148             <p>There are many different features of our project</p>
149         </header>
150
151         <div class="row">
152
153             <div class="col-lg-6">
154

```



```

155 |         
156 |     </div>
157 |
158 |     <div class="col-lg-6 mt-5 mt-lg-0 d-flex">
159 |         <div class="row align-self-center gy-4">
160 |
161 |             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="200">
162 |                 <div class="feature-box d-flex align-items-center">
163 |                     <i class="bi bi-check"></i>
164 |                     <h3>Analyse the current stats</h3>
165 |                 </div>
166 |             </div>
167 |
168 |             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="300">
169 |                 <div class="feature-box d-flex align-items-center">
170 |                     <i class="bi bi-check"></i>
171 |                     <h3>Get to know EV more</h3>
172 |                 </div>
173 |             </div>
174 |
175 |             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="400">
176 |                 <div class="feature-box d-flex align-items-center">
177 |                     <i class="bi bi-check"></i>
178 |                     <h3>Know about Charging Stations</h3>
179 |                 </div>
180 |             </div>
181 |
182 |             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="500">
183 |                 <div class="feature-box d-flex align-items-center">
184 |                     <i class="bi bi-check"></i>
185 |                     <h3>Top performing Brands</h3>

```

```

186 |                 </div>
187 |             </div>
188 |
189 |             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="600">
190 |                 <div class="feature-box d-flex align-items-center">
191 |                     <i class="bi bi-check"></i>
192 |                     <h3>different brands in India</h3>
193 |                 </div>
194 |             </div>
195 |
196 |             <div class="col-md-6" data-aos="zoom-out" data-aos-delay="700">
197 |                 <div class="feature-box d-flex align-items-center">
198 |                     <i class="bi bi-check"></i>
199 |                     <h3>different brands Globally</h3>
200 |                 </div>
201 |             </div>
202 |
203 |         </div>
204 |     </div>
205 |
206 | </div> <!-- / row -->
207 |
208 | <!-- Feature Tabs -->
209 | <div class="row feture-tabs" data-aos="fade-up">
210 |     <div class="col-lg-6">
211 |         <h3>Overview of Electric Vehicle Sector</h3>
212 |
213 |         <!-- Tabs -->
214 |         <ul class="nav nav-pills mb-3">
215 |             <li>
216 |                 <a class="nav-link active" data-bs-toggle="pill" href="#tab1">Overview</a>

```

```

217     </li>
218     <li>
219         <a class="nav-link active" data-bs-toggle="pill" href="#tab2">Pricing</a>
220     </li>
221 </ul><!-- End Tabs -->
222
223 <!-- Tab Content -->
224 <div class="tab-content">
225
226     <div class="tab-pane fade show active" id="tab1">
227         <p>The supply of fossil fuels is constantly decreasing. The situation is very alarming. It
228         <div class="d-flex align-items-center mb-2">
229             <i class="bi bi-check2"></i>
230             <h4>A lot of change needs to happen</h4>
231         </div>
232         <p>Major carmakers like Tesla and Porsche manufacture many electric vehicles. </p>
233         <div class="d-flex align-items-center mb-2">
234             <i class="bi bi-check2"></i>
235             <h4>The improvement of battery technology in recent years has led to the higher popular
236         </div>
237         <p>Buying an electric vehicle can be a great choice for consumers. The drive quality, low r
238     </div><!-- End Tab 1 Content -->
239
240     <div class="tab-pane fade show" id="tab2">
241         <p> In the United States, one year of driving a petrol car can cost from 1500 USD to 2500 U
242         <div class="d-flex align-items-center mb-2">
243             <i class="bi bi-check2"></i>
244             <h4>On the other hand, the driving cost of Electric Vehicles is 500 USD. Electric cars ar
245         </div>
246         <p>The maintenance cost of electric vehicles is also very low. They are economical to maint
247         <div class="d-flex align-items-center mb-2">

```

```

248             <i class="bi bi-check2"></i>
249             <h4>The energy conversion efficiency of electric vehicles is also high.</h4>
250         </div>
251         <p>Electric vehicles use 60-70% of electrical energy. On the other hand, vehicles based on
252     </div><!-- End Tab 2 Content -->
253
254 </div>
255
256 </div>
257
258 <div class="col-lg-6">
259     
260 </div>
261
262 </div><!-- End Feature Tabs -->
263
264
265
266 </div>
267
268 </section><!-- End Features Section -->
269
270 <!-- ===== Services Section ===== -->
271 <section id="services" class="services">
272
273     <div class="container" data-aos="fade-up">
274
275         <header class="section-header">
276             <h2>Story</h2>
277             <p>Electric vehicles Analytics Story</p>
278         </header>

```

```

279
280     <div class="row gy-4">
281
282         <div class='tableauPlaceholder' id='viz1671651172763' style='position: relative'><noscript><a href="#">
283         </div>
284     </div>
285
286 </div>
287
288 </section><!-- End Services Section -->
289
290 <!-- ===== Testimonials Section ===== -->
291 <section id="testimonials" class="testimonials">
292
293     <div class="container" data-aos="fade-up">
294
295         <header class="section-header">
296             <h2>Testimonials</h2>
297             <p>What they are saying about us</p>
298         </header>
299
300         <div class="testimonials-slider swiper" data-aos="fade-up" data-aos-delay="200">
301             <div class="swiper-wrapper">
302
303                 <div class="swiper-slide">
304                     <div class="testimonial-item">
305                         <div class="stars">
306                             <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
307                         </div>
308                         <p>
309                             Proin iaculis purus consequat sem cure digni ssim donec porttitora entum suscipit rhoncus.

```

```

310
311                         <div class="profile mt-auto">
312                             
313                             <h3>Saul Goodman</h3>
314                             <h4>CEO & Founder</h4>
315                         </div>
316                     </div>
317                 </div><!-- End testimonial item -->
318
319                 <div class="swiper-slide">
320                     <div class="testimonial-item">
321                         <div class="stars">
322                             <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
323                         </div>
324                         <p>
325                             Export tempor illum tamen malis malis eram quae irure esse labore quem cillum quid cillum
326                         </p>
327                         <div class="profile mt-auto">
328                             
329                             <h3>Sara Wilsson</h3>
330                             <h4>Designer</h4>
331                         </div>
332                     </div>
333                 </div><!-- End testimonial item -->
334
335                 <div class="swiper-slide">
336                     <div class="testimonial-item">
337                         <div class="stars">
338                             <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
339                         </div>
340                         <p>

```

```

341      Enim nisi quem export duis labore cillum quae magna enim sint quorum nulla quem veniam duis m
342      </p>
343      <div class="profile mt-auto">
344          
345          <h3>Jena Karlis</h3>
346          <h4>Store Owner</h4>
347      </div>
348  </div>
349  </div><!-- End testimonial item -->
350
351  <div class="swiper-slide">
352      <div class="testimonial-item">
353          <div class="stars">
354              <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
355          </div>
356          <p>
357              Fugiat enim eram quae cillum dolore dolor amet nulla culpa multos export minim fugiat minim v
358          </p>
359          <div class="profile mt-auto">
360              
361              <h3>Matt Brandon</h3>
362              <h4>Freelancer</h4>
363          </div>
364      </div>
365  </div><!-- End testimonial item -->
366
367  <div class="swiper-slide">
368      <div class="testimonial-item">
369          <div class="stars">
370              <i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i><i class="bi bi-star-fill"></i>
371          </div>

```

```

372     <p>
373         Quis quorum aliqua sint quem legam fore sunt eram irure aliqua veniam tempor noster venia
374     </p>
375     <div class="profile mt-auto">
376         
377         <h3>John Larson</h3>
378         <h4>Entrepreneur</h4>
379     </div>
380 </div>
381 </div><!-- End testimonial item -->
382
383 </div>
384 <div class="swiper-pagination"></div>
385 </div>
386
387 </div>
388
389 </section><!-- End Testimonials Section -->
390
391 <!-- ===== Team Section ===== -->
392 <section id="team" class="team">
393
394     <div class="container" data-aos="fade-up">
395
396         <header class="section-header">
397             <h2>Team</h2>
398             <p>Our hard working team</p>
399         </header>
400
401         <div class="row gy-4">|
402

```

```

403     <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="100">
404         <div class="member">
405             <div class="member-img">
406                 
407                 <div class="social">
408                     <a href=""><i class="bi bi-twitter"></i></a>
409                     <a href=""><i class="bi bi-facebook"></i></a>
410                     <a href=""><i class="bi bi-instagram"></i></a>
411                     <a href=""><i class="bi bi-linkedin"></i></a>
412                 </div>
413             </div>
414             <div class="member-info">
415                 <h4>Walter White</h4>
416                 <span>Chief Executive Officer</span>
417                 <p>Velit aut quia fugit et et. Dolorum ea voluptate vel tempore tenetur ipsa quae aut. Ipsum
418             </div>
419         </div>
420     </div>
421
422     <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="200">
423         <div class="member">
424             <div class="member-img">
425                 
426                 <div class="social">
427                     <a href=""><i class="bi bi-twitter"></i></a>
428                     <a href=""><i class="bi bi-facebook"></i></a>
429                     <a href=""><i class="bi bi-instagram"></i></a>
430                     <a href=""><i class="bi bi-linkedin"></i></a>
431                 </div>
432             </div>
433             <div class="member-info">

```

```

434         <h4>Sarah Jhonson</h4>
435         <span>Product Manager</span>
436         <p>Quo esse repellendus quia id. Est eum et accusantium pariatur fugit nihil minima suscipit cor
437     </div>
438 </div>
439 </div>
440
441 <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="300">
442     <div class="member">
443         <div class="member-img">
444             
445             <div class="social">
446                 <a href=""><i class="bi bi-twitter"></i></a>
447                 <a href=""><i class="bi bi-facebook"></i></a>
448                 <a href=""><i class="bi bi-instagram"></i></a>
449                 <a href=""><i class="bi bi-linkedin"></i></a>
450             </div>
451         </div>
452         <div class="member-info">
453             <h4>William Anderson</h4>
454             <span>CTO</span>
455             <p>Vero omnis enim consequatur. Voluptas consectetur unde qui molestiae deserunt. Voluptates eni
456         </div>
457     </div>
458 </div>
459
460 <div class="col-lg-3 col-md-6 d-flex align-items-stretch" data-aos="fade-up" data-aos-delay="400">
461     <div class="member">
462         <div class="member-img">
463             
464             <div class="social">

```

```

465                 <a href=""><i class="bi bi-twitter"></i></a>
466                 <a href=""><i class="bi bi-facebook"></i></a>
467                 <a href=""><i class="bi bi-instagram"></i></a>
468                 <a href=""><i class="bi bi-linkedin"></i></a>
469             </div>
470         </div>
471         <div class="member-info">
472             <h4>Amanda Jepson</h4>
473             <span>Accountant</span>
474             <p>Rerum voluptate non adipisci animi distinctio et deserunt amet voluptas. Quia aut aliquid dol
475         </div>
476     </div>
477 </div>
478
479 </div>
480
481 </div>
482
483 </section><!-- End Team Section -->
484
485 <!-- ===== Contact Section ===== -->
486 <section id="contact" class="contact">
487
488     <div class="container" data-aos="fade-up">
489
490         <header class="section-header">
491             <h2>Contact</h2>
492             <p>Contact Us</p>
493         </header>
494
495         <div class="row gy-4">

```

```

496
497     <div class="col-lg-6">
498
499         <div class="row gy-4">
500             <div class="col-md-6">
501                 <div class="info-box">
502                     <i class="bi bi-geo-alt"></i>
503                     <h3>Address</h3>
504                     <p>The Smartbridge<br>Hyderabad, Telangana</p>
505                 </div>
506             </div>
507             <div class="col-md-6">
508                 <div class="info-box">
509                     <i class="bi bi-telephone"></i>
510                     <h3>Call Us</h3>
511                     <p>+1 5589 55488 55<br>+1 6678 254445 41</p>
512                 </div>
513             </div>
514             <div class="col-md-6">
515                 <div class="info-box">
516                     <i class="bi bi-envelope"></i>
517                     <h3>Email Us</h3>
518                     <p>info@example.com<br>contact@example.com</p>
519                 </div>
520             </div>
521             <div class="col-md-6">
522                 <div class="info-box">
523                     <i class="bi bi-clock"></i>
524                     <h3>Open Hours</h3>
525                     <p>Monday - Friday<br>9:00AM - 07:00PM</p>
526                 </div>

```

```

527
528     </div>
529 </div>
530
531 </div>
532
533     <div class="col-lg-6">
534         <div class="mapouter">
535             <div class="gmap_canvas">
536                 <iframe src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3806.4996128125663!2d78.357
537             </div>
538             <style>.mapouter{position:relative;text-align:right;width:600px;height:400px;}.gmap_canvas {over
539         </div>
540     </div>
541
542 </div>
543
544 </div>
545
546 </section><!-- End Contact Section -->
547
548 </main><!-- End #main -->
549
550 <!-- ===== Footer ===== -->
551 <footer id="footer" class="footer">
552
553     <div class="footer-top">
554         <div class="container">
555             <div class="row gy-4">
556                 <div class="col-lg-5 col-md-12 footer-info">

```

```

558 <a href="index.html" class="logo d-flex align-items-center">
559 
560 <span>E-CarStart</span>
561 </a>
562 <p>We offer modern Analytics solutions for Electric Vehicles.</p>
563 <div class="social-links mt-3">
564 <a href="#" class="twitter"><i class="bi bi-twitter"></i></a>
565 <a href="#" class="facebook"><i class="bi bi-facebook"></i></a>
566 <a href="#" class="instagram"><i class="bi bi-instagram"></i></a>
567 <a href="#" class="linkedin"><i class="bi bi-linkedin"></i></a>
568 </div>
569 </div>
570
571 <div class="col-lg-2 col-6 footer-links">
572 <h4>Useful Links</h4>
573 <ul>
574 <li><i class="bi bi-chevron-right"></i> <a href="#">Home</a></li>
575 <li><i class="bi bi-chevron-right"></i> <a href="#">About us</a></li>
576 <li><i class="bi bi-chevron-right"></i> <a href="#">Services</a></li>
577 <li><i class="bi bi-chevron-right"></i> <a href="#">Dashboard</a></li>
578 <li><i class="bi bi-chevron-right"></i> <a href="#">Story</a></li>
579 </ul>
580 </div>
581
582 <div class="col-lg-2 col-6 footer-links">
583 <h4>Our Services</h4>
584 <ul>
585 <li><i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Web Design</a></li>
586 <li><i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Web Development</a></li>
587 <li><i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Product Management</a></li>
588 <li><i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Marketing</a></li>

```

```

589 <li><i class="bi bi-chevron-right"></i> <a href="https://www.thesmartbridge.com/">Graphic Design</a></li>
590 </ul>
591 </div>
592
593 <div class="col-lg-3 col-md-12 footer-contact text-center text-md-start">
594 <h4>Contact Us</h4>
595 <p>
596 The Smartbridge <br>
597 Hyderabad<br>
598 Telangana<br><br>
599 <strong>Phone:</strong> +1 5589 55488 55<br>
600 <strong>Email:</strong> info@example.com<br>
601 </p>
602 </div>
603
604
605 </div>
606 </div>
607 </div>
608
609 <div class="container">
610 <div class="copyright">
611 &copy; Copyright <strong><span>Smartbridge</span></strong>. All Rights Reserved
612 </div>
613 </div>
614 </footer><!-- End Footer -->
615
616 <a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up"></i>
617
618 <!-- Vendor JS Files -->
619 <script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>

```



```

603         </div>
604     </div>
605 </div>
606 </div>
607 </div>
608
609 <div class="container">
610     <div class="copyright">
611         &copy; Copyright <strong><span>Smartbridge</span></strong>. All Rights Reserved
612     </div>
613 </div>
614 </footer><!-- End Footer -->
615
616 <a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up">
617
618 <!-- Vendor JS Files -->
619 <script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>
620 <script src="assets/vendor/aos/aos.js"></script>
621 <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
622 <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
623 <script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
624 <script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
625 <script src="assets/vendor/php-email-form/validate.js"></script>
626
627 <!-- Template Main JS File -->
628 <script src="assets/js/main.js"></script>
629
630 </body>
631
632 </html>

```