



SET Progress Report

Data Analyst Team

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ABSTRACT

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2022

Our report describes how we sourced the data from various websites and how we wrangled the data with the help of various types of tools. Our primary goal is to source the data from websites and wrangle it with the help of frameworks while also determining the root cause of the pattern that appears in the data.

FRAME WORK

We used various Tools for the progress

- **Web Scraper:** This frame work is used to scrape the source data directly from the website with the help of automated scraping which scrape the data with minimalistic steps, it is a add-on chrome extension which get access from the webpage with the help of built in request.
- **Excel:** this tool is used to maintain the data which we scrape from the web scraper frame work it directly send to the Excel tool in the form of structured table format and after storing in the excel, we used the excel for the statistical analysis .
- **Python:** Python tool is used in this progress to clean the dataset by clearing the null values from the dataset we scraped and it is also used to impute the statistical values in the dataset.
- **Power BI:** This is one of the important tool which is used to extract the insight from the data which gives us a pattern for the root cause analysis.

METHODOLOGY

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Electric Cycles & Hoverboards Dataset

name	price in (l	range (lkr	Top speed	battery c	charging	TCS per	charge in minutes
0 Motovolt	36,000	70	25	16	4.5	0.064	270
1 Hero Lec	28,499	30	25	5.8	4	0.064	240
2 Hero Lec	27,499	30	25	5.8	4	0.064	240
3 Hero Lec	38,999	30	25	5.8		0.064	210
4 Hero Lec	32,999	30	25	5.8	3.5	0.064	210
5 Hero Lec	38,999	30	25	5.8	3.5	0.064	210
6 Nexzu Pi	33,999	32	25	5.2	2.75	0.064	165
7 Firefox A	60,000	52.157	28.75	10.3	4.5	0.064	270
8 EMotorai	79,800	50	25	10	5.5	0.05	330
9 SWITCH	38,999	80	25	14.5	4.5	0.064	270
10 BattREE	38,700	52.157	28.75	13	4.5	0.064	270
11 BattREE	35,700	52.157	28.75	13	4.5	0.064	270
12 BattREE	40,700	52.157	28.75	13	4.5	0.064	270
13 BattREE	29,900	52.157	28.75	8	4.5	0.064	270
14 EMotorai	46,000	45	25	10.4	4.5	0.05	270
15 EMotorai	58,999	45 45+		10.4	4	0.05	240
16 SWITCH	47,000	52.157	25	8.7	4.5	0.064	270
17 Essel Envi	42,500	75	25	16	4.5	0.07	270
18 Essel Envi	37,500	45	25	13	4.5	0.1	270
19 Touché	49,900	75	25	11.6	4.5	0.04	270
20 Touché	53,900	75	25	11.6	4.5	0.04	270
21 Touché	57,900	75	25	11.6	4.5	0.04	270
22 Polarity S	38,000	80	80	5.8	4.5	0.064	270
23 Polarity S	40,000	80	100	10.3	4	0.064	240
24 Motovolt	49,999	120	25	20	4	0.064	240
25 Nexzu B	46,999	85	25	13.9	3.5	0.064	210
26 Nexzu Pi	45,999	82.5	25	13.9	7.5	0.064	450
27 Motovolt	29,774	67.5	28.75	16	4.5	0.12	270
28 Motovolt	28,449	37.5	25	6	4.5	0.05	270
29 Motovolt	29,774	67.5	25	16	4.5	0.12	270
30 Motovolt	31,049	67.5	25	16	4.5	0.12	270
31 Hero Lec	44,090	57.5	25	11.6	7	0.05	420
32 Hero Lec	44,419	72.5	25	14.5	7	0.05	420
33 SWITCH	74,999	47.5	25	11.6	4.5	0.08	270
34 Hero Lec	39,999	25	25	6.36	4.5	0.06	270
35 Hero Lec	40,999	25	25	6.4	4.5	0.06	270
36 Hero Lec	34,999	25	25	6.36	4.5	0.06	270
37 Hero Lec	46,999	25	25	8.7	4.5	0.08	270
38 Hero Lec	39,999	25	25	6.4	4.5	0.06	270
39 Hero Lec	34,999	25	25	5.8	4	0.05	240
40 Hero Lec	54,999	60	25	11.6	5.5	0.05	330
41 Lectro El	36,999	30	25	5.8	4	0.05	240
42 Hero Lec	30,999	30	25	5.8	4	0.05	240
43 Hero Lec	28,999	30	25	5.8	4	0.05	240
Average	43,364	52.158	28.547	10.225	4.5174		
Standard	14435	22.463	13.967	3.9643	0.8701		
max	98,999	120	100	20	8		
min	27,499	25	25	5	3		

product	price	max speed	max distar	charging ti	battery vo	battery ah
Uboard SUV Off-Roader - Hoverboard - Electric Vehicle	26,999	15	14	120	36	4.4
Uboard Classic 6.5 - Hoverboard - Electric Vehicle	32,449	12	12	120	36	2.2
Uboard Eco 6.5 - Hoverboard - Electric Vehicle	18,999	8	8	90	36	4.4
Uboard Hybrid 08+ - Hoverboard - Electric Vehicle	26,949	14	14	120	36	4.4
CXM 6.5 - Hoverboard - Electric Vehicle	15,999	12.25	12	112.5	36	4.4
sky wings segway hoverboard Self Balancing 6.5" HoverBoard Scooter (Wh	11,999	12.5	17.5	90	36	4.4
TYGATEC ECO Bluetooth Music Speaker Hover boardElectric Drifting Board	14,395	12.25	13	116.25	36	4.4
Uboard ECO Board 6.5 Inch Electric Hoverboard HoverBoard Scooter	20,999	10	25.5	120	36	4.4
sky wings platinum self balancing electric scooter hover board	19,999	12.5	17.5	120	36	4.4
CXM Hoverboard Self Balancing Electric Scooter 8.5" HoverBoard Scooter	14,354	12	14	112	36	4.4
EMOB Two Wheels Electric Standing Smart Balance Self Balancing Hover b	20,314	12	15	112	36	4
Zroof Hoverboard Self Balancing Electric Scooter HoverBoard Scooter (Mu	19,646	12	15	111	36	4
Bird Hoverboard Electric Scooter Board	20,314	10	15	90	36	4.4
TARKAN Self Balancing Electric Scooter HoverBoard Scooter	15,923	10	15	110.316	36	4.4
ABB Self balancing electric scooter HoverBoard Scooter	14448	12	15	110.316	36	4
average	19,586	11.75367	14.805	110.316	36	4.195867
median	19,646	12	15	112	36	4

There are some steps involved to progress these two dataset.

Step 1. I used the web scraper extension to scrape the data from the website.

Step 2. Secondly, I used the Excel frame work for the statistical analysis to fill the null values.

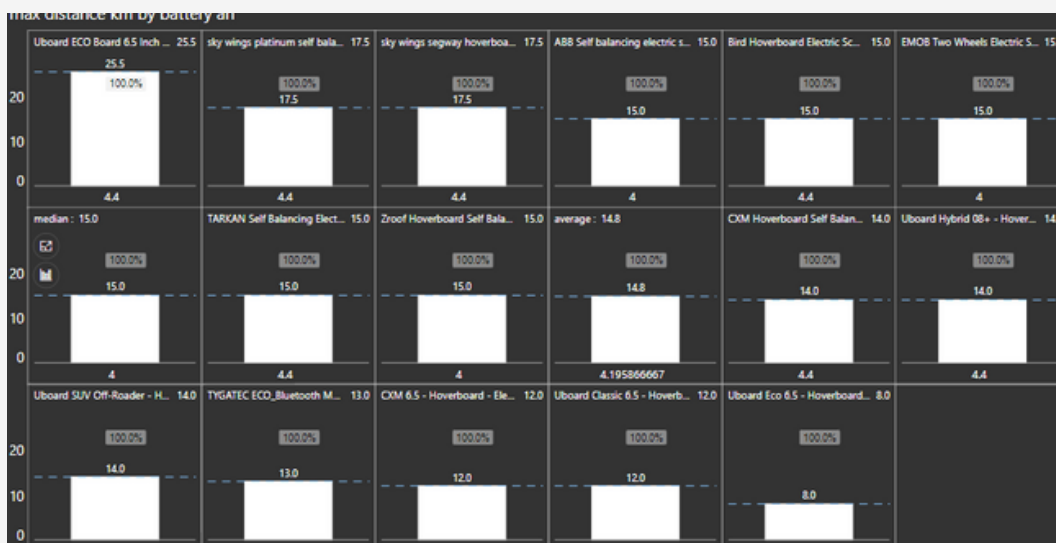
Step 3. Python framework is used to clear all null values and impute the statistical value in the dataset of the missing values with the help of dedicated python code

Step 4. For extracting the insights from the data set I used the Power BI for the visualization.

ROOT CAUSE ANALYSIS

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Pattern From the Dataset

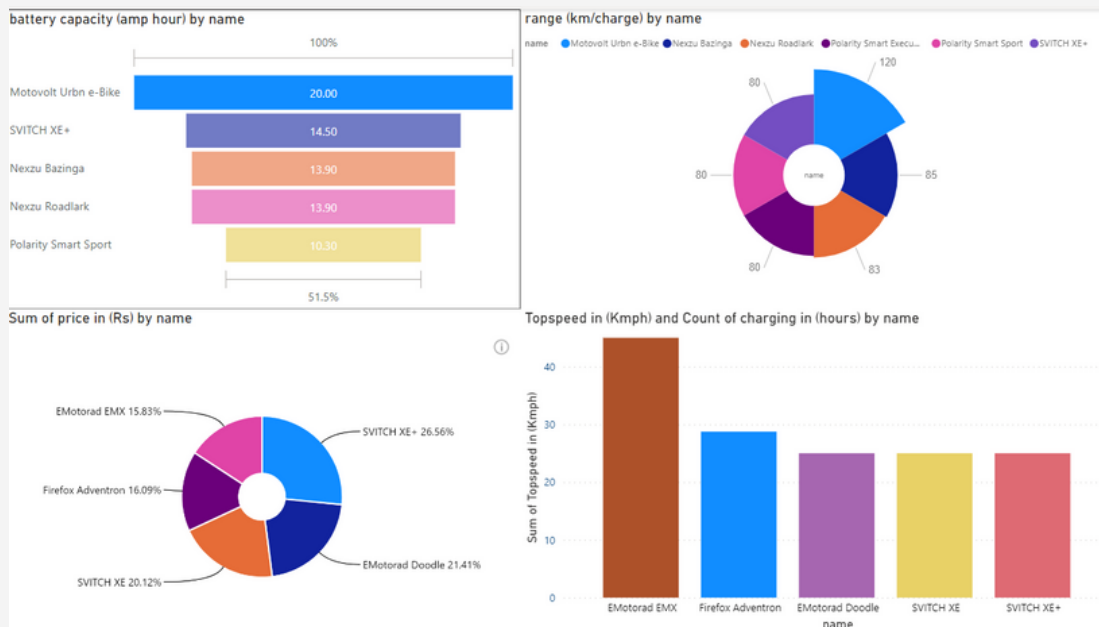


This graph depicts the pattern of the battery used in each firm. The capacity of the battery varies, as does the range of distance. Even though some battery capacities are comparable, the range differs. This issue can arise when a faulty car accessory is connected to the battery and destroys it. Major Factor to affect the Range

1. Over Heat temperature
2. Damaged Alternator
3. Short-Trip circuit

VISUALIZATION

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NEXT PLAN OF ACTION

This week we started to scrape the European website.

Final Weekend I am planning to create a interactive dashboard for the public user.