AN EMPIRICAL STUDY ON COGNITIVE DISSONANCE FACTORS OF CONSUMERS AND THEIR SATISFACTION TOWARDS THE PURCHASE OF ELECTRIC VEHICLE

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ABSTRACT: Consumer buying behavior is the actions taken by consumers before purchasing, during purchasing, and post purchasing of goods and services for personal and family use. Cognitive dissonance is an internal conflict that people have when their differing beliefs and opinions collide. Cognitive dissonance in the adaptation of electric vehicles (EVs) is a prevalent issue in the transportation sector. This can lead to post-purchase regret and dissatisfaction. So, the study aims to identify the factors that lead to Cognitive Dissonance among the consumers towards EV purchase and their level of consumers' satisfaction towards the adoption of E-Vehicle. The study was done in Coimbatore among 163 people. Purposive sampling has been conducted for finding EV users. Descriptive statistics, Chi square, ANOVA, Correlation and regression have been used for analysis. It is inferred that most of the respondent's own hybrid mode of vehicle for their purpose. The result of the study shows that the respondents are highly influenced by peer group choice and least preference to the Belief factor. Further they are highly satisfied about the price of purchase of Electric Vehicle and cost saving feature compared to fuel Vehicle.

INTRODUCTION:

Cognitive dissonance in the adaptation of electric vehicles (EVs) is a prevalent issue in the transportation sector. The world seeks to transition to more sustainable and environmentally friendly transportation solutions, individuals and even entire societies sometimes face a disconnect between their awareness of the need for cleaner energy and their actual behaviors. The dissonance can be observed in several ways. Many people may acknowledge the environmental benefits of EVs, such as reduced carbon emissions, yet hesitate to switch from traditional gasoline-powered vehicles due to concerns about range anxiety or the convenience of refueling. Societies and governments may promote EV adoption as a key solution to combat climate change, while still investing heavily in infrastructure that supports fossil fuels. Resolving this cognitive dissonance in EV adaptation involves a multifaceted approach, including addressing practical concerns like charging infrastructure, providing incentives, and raising awareness about the long-term environmental benefits. Additionally, policy changes and economic shifts can help align beliefs with actions and accelerate the adoption of electric vehicles in the pursuit of a more sustainable and ecoconscious future.

STATEMENT OF THE PROBLEM:

Cognitive dissonance often arises when an individual is faced with a decision, such as whether to purchase an EV or stick with a traditional gasoline-powered vehicle. This internal conflict can make the decision-making process difficult and stressful. After buying an EV, individuals may experience cognitive dissonance if they perceive a gap between their expectations and the actual experience of owning and using the vehicle. This can lead to post-purchase regret and dissatisfaction. Some individuals may experience cognitive dissonance

due to perceived inconveniences associated with EV ownership, such as concerns about charging infrastructure, range anxiety, and longer refueling times compared to gasoline vehicles. So, the study aims to identify the factors that lead to Cognitive Dissonance among the consumers towards EV purchase and their level of consumers' satisfaction towards the adoption of E-Vehicle.

SCOPE OF THE STUDY:

The adoption of Electric Vehicles (EVs) is crucial for addressing environmental concerns and transitioning to sustainable transportation. However, despite the growing awareness of the benefits of EVs, there exists a gap between the intention to purchase an EV and the actual adoption rate. This study aims to identify the cognitive dissonance factors that hinder consumers from purchasing EVs, explore the conflicts between their intentions and actions, and understand the underlying psychological and practical barriers.

OBJECTIVES OF THE STUDY

- ❖ To identify the Cognitive Dissonance factors influencing consumers towards EV purchase.
- ❖ To analyze the relationship between the factors influencing and satisfaction towards the adoption of E-Vehicle among consumers.

RESEARCH METHODOLOGY:

The research study has identified the Cognitive Dissonance factors and analyzed the relationship between those factors' influence and satisfaction towards the adoption of E-Vehicle among consumers. The survey has been conducted on the basis of Purposive sampling method to find the EV users. The survey has been conducted in and around Coimbatore city with sample size of 163 respondents. The study is based on primary data. Primary data for this study are collected through the structured questionnaire method. The following statistical tools have been applied for the analysis purpose namely: Percentage analysis, Descriptive statistics, ANOVA, t-test, Chi-square, Correlation and Regression.

LIMITATIONS OF THE STUDY:

- The survey has been done among the respondents of the Coimbatore, and the perception may vary from time to time so, it cannot be generalized.
- ❖ Due to time constraints the sample size has been limited to 163 respondents, so the overall perception of Electric Vehicle users' results cannot be predicted.

REVIEW OF LITERATURE:

❖ Tarun Kanti Bose (2012), on his study explored the factors that create cognitive dissonance in consumer buying decision making, particularly among the consumer goods purchasers. The results of his study stated that some factors, e.g., norms, religious values, cultures, customs, etc., are responsible for creating cognitive dissonance among the customers and he also suggested the importance of Cognitive Dissonance in making a customer satisfied or dissatisfied.

- ❖ Anil Khurana et.al. (2019) examine the factors that affect the consumer's adoption of an EV. They have found that there is positive a relation and acceptance on adoption of electric vehicles. Attitude (ATT) emerged as a strong mediator, influencing the adoption of electric cars. They have suggested that the incentives offerings and eco-friendly features will support the more acceptance of EV.
- ❖ Brajesh Bolia PhD (2020) has conducted a study with the aim to understand the dynamics of cognitive dissonance in the context of financial product purchase. The arousal of cognitive dissonance after the purchase decision might result in order cancellations, loss of trust for the brand as well as loss of loyal customers. Measuring dissonance in financial product context post purchase can help marketers devise appropriate strategies to reduce dissonance, thereby retaining and attracting customers.

Table: 1 Percentage Analysis

Demographic Factors	Particulars	No. of Respondents	Percentage	
	25 & Below 25 years	86	52.8	
	26 to 45 years	24	14.7	
	46 to 55 years	41	25.2	
Age group	Above 55 years	12	7.4	
	Male	76	46.6	
Gender	Female	87	53.4	
	School Level Education	8	4.9	
	Diploma Level	8	4.9	
	UG	79	48.5	
	PG	46	28.2	
Educational Level	Professional	22	13.5	
	Student	62	38.0	
	Home maker	3	1.8	
	Employed	73	44.8	
	Retired	2	1.2	
Status	Business	23	14.1	
	Less than Rs.3 Lakhs	87	53.4	
	Rs.3 Lakhs to Rs.6 Lakhs	27	16.6	
Annual Income	Above Rs.6 Lakhs to Rs.9 Lakhs	21	12.9	
Annual Income	Above Rs.9 Lakhs	28	17.2	

	Up to 3	32	19.6
	4 to 6	107	65.6
No. of Members in the family	Above 6	24	14.7
	Urban	79	48.5
	Semi-urban	47	28.8
Area of the residence	Rural	37	22.7
	Dealership	55	33.7
	Online retailer	30	18.4
	Manufacturer's Website	39	23.9
	Secondhand market	13	8.0
	Showroom	26	16.0
Place of Purchase			
	Less than Rs.5 Lakhs	89	54.6
	Rs.5 Lakhs to Rs.>10 Lakhs	32	19.6
A	Rs.10 Lakhs to Rs.15 Lakhs	26	16.0
Amount spend on purchasing	Above Rs.15 Lakhs	16	9.8
	Less thanRs.5,000	67	41.1
	Rs.5,000 to Rs.10,000	42	25.8
	Rs.10,001 to Rs.15,000	41	25.2
Average Monthly Expenses	Above Rs.15,000	13	8.0
Total	,	163	100.00

(**Source:** Computed Data)

From the above table it shows that 163 respondents, 52.8 per cent of the respondents are 25 & Below 25 years, 53.4 per cent of the respondents are female, 48.5 per cent of the respondents are UG degree holders, 44.8 per cent of the respondents are employed, 53.4 per cent of the respondents with annual income less than Rs.3 Lakhs, 65.6 per cent of the respondents have four to six members, 48.5 per cent of the respondents located in urban area, 33.7 per cent of the respondents purchased electric vehicle at Dealership, 54.6 per cent of the respondents purchased Electric Vehicle for less than Rs.5 Lakh, 41.1 per cent of the respondents have spent an average of less than Rs.5000 per month.

Table: 2 Level of Satisfaction towards the adoption of E-Vehicle- Descriptive Statistics

Statements	Mean	Std. Deviation
Price	3.90	1.05
Design and Style	3.80	0.78
Performance & features	3.76	0.78
Roominess (space capacity)	3.72	0.90
Range Anxiety	3.54	1.06
Charging Infrastructure	3.63	0.90
Speed	3.58	0.90
Battery life	3.71	0.90
Government incentive	3.69	0.89
Cost savings (compared to Fuel Vehicle)	3.87	0.83
Maintenance costs	3.69	0.84
Resale Value	3.69	0.85
Perceived Safety	3.79	0.89
Dealer Service	3.69	0.93
Noise Level	3.86	0.85
Insurance Costs	3.81	0.81

(**Source:** Computed Data)

The table above 4.3.2, shows the Descriptive statistics for the Level of Satisfaction towards the adoption of E-Vehicle are analyzed. 'Price' stands first among all the factors with mean score of 3.90 with a Standard deviation of 1.05 followed by 'Cost savings' having a mean score of 3.87 with a Standard deviation of 0.83 which is followed by 'Noise level' with a mean score of 3.86 with a Standard deviation of 0.85. The factor 'Speed' has the mean score of 3.58 followed by 'Range anxiety' with the least mean score of 3.54 with a Standard deviation of 1.06.

It is inferred that the respondents are highly satisfied with the Price of purchase of EV, Cost saving features compared to fuel vehicles. They are moderately satisfied with Roominess of EVs. The respondents are dissatisfied with regards to Range anxiety.

The multiple data analysis of the above table states that the 'Hybrid EV' has been mostly experienced by the respondents as it has 44.4 per cent of 100 whereas only 16 and 19 responses are turned up for Fully-Electric Vehicle and Plug-in hybrid EVs respectively. Therefore, the data reveals that irrespective of demographic and psychological factors, people

prefer to use the 'Hybrid Electric Vehicle' as it has the majority of 28 out of 63 respondents.

Table: 3 Demographic variables and Satisfaction level towards the adoption of E-Vehicle: ANOVA $\,$

Demographic Profile	Groups	N	Mean	SD	t- Value	F- Value	Sig Value	Sig
Age Group	25 years and below	86	52.34	20.87				
	26 to 45 years	24	39.67	29.76	-			
	46 to 55 years	41	10.51	23.53		28.81	< 0.01	S
	Above 55 years	12	27.33	33.86				
Gender	Male	76	19.68	29.45	-8.84		< 0.01	S
	Female	87	54.21	18.31				
Educational Level	School Level Education	8	38.13	32.16				
	Diploma Level	8	13.38	24.84	-			
	UG	79	50.54	23.06	-	14.05	< 0.01	S
	PG	46	35.43	30.80	-			
	Professional	22	8.05	20.94	-			
Status	Student	73	52.45	21.71				
	Home maker	3	37.67	33.26				
	Employed	62	28.44	30.12				
	Retired	2	33.00	46.67		10.17	< 0.01	S
	Business	23	19.17	29.73				
Annual Income	Less than Rs.3 Lakhs	87	53.36	20.26				
(in Rs.)	Rs.3 Lakhs to Rs.6	27	34.63	29.72				
	Lakhs							
	Above Rs.6 Lakhs to	21	6.52	20.63		31.54	< 0.01	S
	Rs.9 Lakhs							
	Above Rs.9 Lakhs	28	17.79	28.80				
Number of	Upto 3	32	45.97	27.52				
members in the	4 to 6	107	41.72	27.85	1	13.33	< 0.01	S
Number of members in the	Above Rs.9 Lakhs Upto 3	32	45.97	27.52	_	13.33	<0.01	S

family	Above 6	24	11.54	26.59			
	Urban	79	30.80	30.42			
residence	Semi-urban	47	45.81	27.19	4.94	0.008	S
	Rural	37	43.95	27.77			

The average mean score has been found for Satisfaction level towards the adoption of E-Vehicle. The respondents whose age is 25 years and below are found to have the highest mean score of 52.34. The female respondents have the highest mean score of 54.21. The respondents whose educational level is Under Graduation are found to have the highest mean score of 50.54 and their status is employed with the highest mean score of 52.45. The highest mean score of 45.81 has been found for the respondents resides in semi urban area and whose annual income is less than Rs.300000 has a mean score of 53.36 respectively. The respondents who have three members in the family have the mean score of 45.97. ANOVA results indicates that, there is a significant difference with the mean score of age, educational level, occupation, annual income, number of family members, area of residences and the level of Satisfaction towards the adoption of E-Vehicle. Hence the null hypothesis is rejected.

Table 4: Age Group and Place of Purchase

		Place of Purch	nase							
		Dealership	Onli retai		Manufacturer's Website		Second hand market		Others	Total
Age Grou	Upto 25 years	35	11		13		5		22	86
p	26 to 45 years	7	6	10			0		1	24
	46 to 55 years	9	11 2		3		6		2	41
	Above 55 years	4					2		1	12
Total		55	30		39		13		26	163
Chi-So	quare Tests		•				•		1	•
				Value	;	df		Asymptotic Significance (2-sided		2-sided)
Pearso	n Chi-Squar	e		30.21	4	12		.003		
Likelih	nood Ratio			32.67	7	12		.001		
Linear	-by-Linear A	Association		.212 1		1		.645		
N of V	N of Valid Cases									
a. 9 ce	lls (45.0%) h	nave expected c	ount l	ess tha	ın 5. The	minim	um expe	ected o	count is .9	96.

The Chi square analysis for the above table shows that among 163 respondents, 55 have purchased EVs through dealerships. It has been found that, since the chi- square sig. value (p>0.003) is less than 0.05 there is a significant relationship ($x^2 = 30.214$, p > 0.003) between the place of the purchase of E-Vehicle and the age of the respondents. It is inferred that the young aged people are highly interested in adoption of E-Vehicles especially through dealers' choice.

Table:5 Age Group and Average Monthly Electric Vehicle Ownership Expenses: Chi-Square Tests

		Average Month	ly Electric Vehicle	e Ownership Ex	penses	
		Less than Rs.5000	Rs.5000 to Rs.10000	Rs.10001 to Rs.15000	Above Rs.15000	Total
Age	Upto 25 years	48	23	14	1	86
Group	26 to 45 years	12	8	2	2	24
	46 to 55 years	3	10	22	6	41
	Above 55 years	4	1	3	4	12
Total	1	67	42	41	13	163
Chi-Sq	uare Tests		l			
			Value	df	Asymptotic Significance	(2-sided)
Pearson	Chi-Square		54.162 ^a	9	.000	
Likelih	ood Ratio		56.261	9	.000	
Linear-by-Linear Association			34.842	1 .000		
N of Valid Cases			163			
a. 6 cel	ls (37.5%) have e	expected count les	ss than 5. The min	imum expected	count is .96.	

The above table shows that among 163 respondents, majority respondents about 67 have spent less than Rs.5000 as an average monthly electric vehicle ownership expense. The analysis states that, there is a significant relationship ($x^2=54.162$, p>0.000) between the age group and average monthly Electric Vehicle ownership expenses of the respondents as the chi-square sig. value (p>0.000) is less than 0.05. It is inferred that many people tend to spend lesser amount for their monthly vehicle expenses on average of Rs.15000 and below.

Table: 6 Gender and Amount spend on purchasing Electric Vehicle

		Amount spend or				
		Less than Rs.5 Lakhs	Rs.5 Lakhs to			Total
Gende	Male	22	15	23	16	76

r	Femal e	67	17		3		0		
Total		89	32		26	16		163	
Chi-Sq	uare Te	sts	•			•			
			Value		df		Asymptotic Significanc sided)		(2-
Pearson	n Chi-Sq	uare	53.765 ^a		3		.000		
Likelih	ood Rati	0	62.848		3		.000		
Linear-	Linear-by-Linear Association		51.953		1		.000		
N of Va	alid Case	es	163						
a. 0 cell	a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 7.46.								

It is inferred from the table that a majority of men and women are agreed to spend only less than 5 lakhs on purchasing Electric Vehicles. The analysis reveals that, there is significant relationship ($x^2=53.765$, p>0.000) between the gender group and the amount spend on purchasing the Electric Vehicle of the respondents since the chi-square sig. value (p>0.000) is less than 0.05. It is inferred that irrespective of the gender, people have high level of satisfaction towards the adoption of E-vehicles by spending lesser amount on purchase.

Table 7: Area of the residence and Amount spend on purchasing Electric Vehicle

		Amount spen	nd on p	urchasing	Ele	ectric Vehic	cle				
			Rs.5 Rs.10		to	> Rs.10 La to Rs Lakhs		Abo Lak		s.15	Total
Area	Urban	34	13			19		13			79
	Semi- urban	26 15				6		0			47
	Rural	29	4			1		3		37	
Total	Total 89 32		32			26		16		163	
Chi-Sq	uare Tests		l			l					
				Value		df			Asymp Signific		e (2-sided)
Pearson	Chi-Square	;		27.145 ^a		6			.000		
Likelih	ood Ratio			32.347		6			.000		
Linear-by-Linear Association				14.948		1		.000			
N of Valid Cases				163							
a. 2 cell	ls (16.7%) h	ave expected co	unt less	than 5. The	e m	inimum exp	ecte	d co	unt is 3	.63.	

The table indicates that among 163 respondents, the EVs are highly used by the urban people and it is also known that they are willing to spend less than 5 lakhs rupees on their purchase. It has been found that, there is a significant relationship ($x^2 = 27.145$, p < 0.000) between the area of the respondents and the amount spend on purchasing Electric Vehicle as the chi- square sig. value (p<0.000) is less than 0.05. It is inferred that the level of income of respondents also influence the purchase of Electric Vehicles i.e., they tend to spend a minimum amount for purchasing EVs.

Table 8 : Educational Level and Place of Purchase

		Place of Pu	rchase					
		Dealership	Online retailer	Manufacturer's Website	Second hand market	Show	Total	
Educational Level	School Level Education	3	2	2	0	1	8	
	Diploma Level	2	2	3	1	0		
	UG	35	11	10	5	18	79	
	PG	11	7	18	3	7	46	
	Professional	4	8	6	4	0	22	
Total		55	30	39	13	26	163	

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	31.711 ^a	16	.011
Likelihood Ratio	35.599	16	.003
Linear-by-Linear Association	.428	1	.513
N of Valid Cases	163		
1.4 11 (5.6.00/) 1 1	. 1 .1 .7	CC1 · ·	. 1

a. 14 cells (56.0%) have expected count less than 5. The minimum expected count is .64.

The analysis indicates that among 163 respondents, 55 respondents have bought Electric Vehicles through Dealership and more than 30 respondents are students pursuing their higher studies. It has been found that, there is no significant relationship ($x^2 = 31.711$, p < 0.11) between the education level and Place of Purchase of Electric Vehicle (EV) as the chi-square sig. value (p<0.11) is more than 0.05. From this table, it is inferred that UG degree holders are the most common users of EVs preferring to purchase from Dealership.

Table 9 : Model Summary - Dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle

Model Summary ^b	
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					Change Statistics					
Mode l	R	-		Std. Error of the Estimate	CT .	F Chang e	df 1			Durbin- Watson
1	.866	.751	.738	15.17883	.751	57.918	8	15 4	.000	1.473

a. Predictors: (Constant), Personal Performances, Religious Value, Belief & Norms, Customs & Culture, Political Ideology, Emotional Reaction, Family Status, Peer Group Influence

b. Dependent Variable: Level of Satisfaction towards the adoption of E-Vehicle

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1 Regression		106752.905	8	13344.113	57.918	.000 ^b
	Residual	35481.107	154	230.397		
	Total	142234.012	162			

a. Dependent Variable: Level of Satisfaction towards the adoption of E-Vehicle

From the above table, level of satisfaction towards the adoption of E-Vehicle is taken as the dependent variable and Personal Performance, Religious Value, Belief & Norms, Customs & Culture, Political Ideology, Emotional Reaction, Family Status, Peer Group Influence is taken as Independent Variable. Among the two variables that is between Dependent and Independent (f=57.918 positive, p<.000) which is below 1 per cent level of significance. Hence the null hypothesis is rejected and it can be concluded that there is significant linear relationship between the dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle

Table 10 : Coefficients- Dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle

Coe	Coefficients ^a							
		Unstandardiz	zed	Standardized				
		Coefficients		Coefficients				
Model					T	Sig.		
		В	Std. Error	Beta				
1	(Constant)	7.306	1.864		3.919	.000		
	Belief & Norms	2.339	.658	.508	3.553	.001		

b. Predictors: (Constant), Personal Performances, Religious Value, Belief & Norms, Customs & Culture, Political Ideology, Emotional Reaction, Family Status, Peer Group Influence

Customs & Culture	.401	.793	.088	.506	.614
Political Ideology	-1.370	.999	236	-1.372	.172
Religious Value	3.572	1.158	.397	3.085	.002
Family Status	423	.823	095	514	.608
Peer Group Influence	1.819	1.200	.305	1.516	.132
Emotional Reaction	-2.096	1.125	350	-1.863	.064
Personal Performances	1.593	1.019	.265	1.563	.120

a. Dependent Variable: Level of Satisfaction towards the adoption of E-Vehicle

From the above table, level of satisfaction towards the adoption of E-Vehicle is taken as the dependent variable and Personal Performance, Religious Value, Belief & Norms, Customs & Culture, Political Ideology, Emotional Reaction, Family Status, Peer Group Influence is taken as Independent Variable. Among the two variables that is between level of satisfaction and Constant (t=3.919 positive, p<.000) which is below 1 per cent level of significance. Hence the null hypothesis is rejected and it can be concluded that there is significant linear relationship between the dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle.

It is inferred that level of satisfaction on Belief & Norms and Religious Value which is below 1 per cent level of significance. Hence the null hypothesis is rejected and it can be concluded that there is significant linear relationship between the dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle. Followed by level of satisfaction on Customs & Culture, Political Ideology, Personal Performances, Emotional Reaction, Peer Group Influence and Family Status which is above 1 per cent level of significance. Hence the null hypothesis is accepted and it can be concluded that there is no significant linear relationship between the dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle.

Table 11: Residuals Statistics- Dimensions of psychological factors and Level of Satisfaction towards the adoption of E-Vehicle

Residuals Statistics ^a							
	Minimum	Maximum	Mean	Std. Deviation	N		
Predicted Value	7.3056	88.5723	38.1104	25.67038	163		
Residual	-41.88365	56.44103	.00000	14.79930	163		
Std. Predicted Value	-1.200	1.966	.000	1.000	163		
Std. Residual	-2.759	3.718	.000	.975	163		

a. Dependent Variable: Level of Satisfaction towards the adoption of E-Vehicle

From the table, it is inferred that the predicted values, they range from a minimum of 7.3056 to a maximum of 88.5723, with a mean of 38.1104. This suggests that the model's predictions for satisfaction levels vary widely, covering a broad spectrum of values. The standard deviation of 25.67038 indicates that there is considerable variability in the predicted values around the mean. The range from -41.88365 to 56.44103, the mean of the residuals is reported as zero, which suggests that, on average, the model's predictions are reasonably accurate, as the residuals' mean is close to zero. However, the standard deviation of the residuals, 14.79930, indicates that there is still some variability in these errors, suggesting that the model's predictions are not always precise. The standardized predicted values range from -1.200 to 1.966, and the standardized residuals range from -2.759 to 3.718, the statistics for the residuals indicate that the model, on average, provides reasonably accurate predictions of satisfaction levels, as evidenced by a mean residual close to zero.

Table 12: Correlation Analysis - Psychological factors influencing the purchase decision and the level of satisfaction with the adoption of E-Vehicles.

Correlations							
		Psychological factors influencing in purchase decision	Level of Satisfaction towards the adoption of E-Vehicle				
Psychological factors	Pearson Correlation	1	.847**				
influencing in purchase decision	Sig. (2-tailed)		.000				
	N	163	163				
	Pearson Correlation	.847**	1				
towards the adoption of E-Vehicle	Sig. (2-tailed)	.000					
	N	163	163				
**. Correlation is significant a	t the 0.01 level (2-taile	ed).	1				

The above table represents the correlation analysis between the psychological factors influencing in purchase decision and level of satisfaction towards the adoption of E- Vehicles. The null hypothesis state that There is no significant correlation between the psychological factors influencing the purchase decision and the level of satisfaction with the adoption of E-Vehicles. The correlation coefficient between them is presented in the table. The Pearson's correlation coefficient is used to measure the strength and direction of the linear relationship between two variables. It ranges from -1 to +1. A value of -1 indicates positive correlation. A value of +1 indicates negative correlation. A value of 0 indicates no correlation between the variables.

In this case, the correlation between psychological factors influencing in purchase decision and Level of Satisfaction towards the adoption of E-Vehicle is .847. On the other hand, the Level of Satisfaction towards the adoption of E-Vehicle and Psychological factors influencing in purchase decision is .847. The correlation is significant at the 0.01 level (2 tailed), which means that there is a positive relationship between the variables. Therefore, we

reject the null hypothesis. Hence it is revealed that the psychological factors influencing to purchase Electric Vehicle have highly correlated with the level of satisfaction.

SUGGESTIONS:

- ❖ Electric vehicle manufacturers and dealerships should focus on marketing strategies that highlight social status and peer preferences; should work on pricing strategies to make EVs more affordable and competitive in the market.
- Encourage governments to provide incentives such as tax breaks and subsidies to promote the adoption of electric vehicles, especially in the price-sensitive demographic.
- Further development of EV charging infrastructure, particularly in urban and semiurban areas, to reduce range anxiety and increase consumer satisfaction.

CONCLUSION:

Cognitive dissonance in the adaption of electric vehicles (EVs) is a prevalent issue in the transportation sector. The world seeks to transition to more sustainable and environmentally friendly transportation solutions, individuals and even entire societies and sometimes face a disconnect between their awareness for their need for cleaner energy and their actual behaviors. The study highlights the importance of understanding demographic variations and psychological factors in shaping consumer behavior in the electric vehicle market. The finding reveals that the respondents reside in urban area and they prefer to purchase Electric Vehicle through Dealership. It is inferred that most of the respondent's own hybrid mode of vehicle for their purpose. The result of the study shows that the respondents are highly influenced by peer group choice and least preference to the Belief factor. So, the Electric vehicle manufacturers and dealerships should focus on marketing strategies that highlight social status and peer preferences and manufacturers should work on pricing strategies to make EVs more affordable. The study concludes that further development of EV charging infrastructure, particularly in urban and semi-urban areas, to reduce range anxiety and will lead to increase consumer satisfaction.

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