

A STUDY ON RELATIONSHIP BETWEEN DRIVER ATTITUDES AND RISK-TAKING BEHAVIOR AND ITS IMPLICATIONS FOR ROAD SAFETY

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Abstract:

Attitudes are the cognitive evaluations of individuals that have toward objects, people, or situations. In the context of driving, attitudes can shape a driver's perception of risk, adherence to traffic regulations, and overall behavior on the road. For instance, a driver with a positive attitude towards obeying traffic laws is more likely to drive cautiously and responsibly. This study aims to investigate the relationship between driver attitudes and risk-taking behavior and its implications for road safety. By examining the underlying psychological factors that influence drivers' decision-making processes, road safety management strategies can be developed to target specific attitudes and behaviors.

Keywords: Driver Attitudes, Driving Behavior, Management, Traffic Management, Road safety.

INTRODUCTION

Attitudes refer to the thoughts, beliefs, and feelings drivers have towards road safety, traffic rules, and their own driving behavior. These attitudes are shaped by various factors such as personal experiences, social norms, cultural influences, and individual characteristics. Positive attitudes towards road safety encourage drivers to adopt safer driving practices and adhere to traffic regulations. On the other hand, negative attitudes can

lead to risky behavior, such as speeding, aggressive driving, or driving under the influence of alcohol or drugs.

Risk-taking behavior, in the context of driving, refers to actions or decisions made by drivers that increase the likelihood of accidents or unsafe situations. Risk-taking behavior can manifest in various forms, including over speeding, tailgating, ignoring traffic signals, distracted driving, or not wearing

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seat belts. Such behaviors not only put the driver at risk but also endanger the lives of passengers, pedestrians, and other road users.

The study of attitudes and risk-taking behavior of drivers aims to explore the relationship between these factors and their impact on road safety management. By understanding the underlying attitudes that influence risk-taking behavior, policymakers, traffic authorities, and researchers can develop targeted interventions and strategies to improve road safety.

Road safety is a critical concern worldwide due to the increasing number of road accidents and their devastating consequences. Driver behavior plays a significant role in determining the safety of roads.

Attitudes and risk-taking behavior of drivers are important factors that influence their driving decisions, which ultimately impact road safety management. Understanding the relationship between attitudes and risk-taking behavior is crucial for developing effective strategies to promote safer driving practices and reduce the number of accidents.

The purpose of this study is to examine the attitudes of drivers and their risk-taking behavior in relation to road safety. By investigating these factors, we aim to identify key psychological and behavioral determinants that influence driver behavior and contribute to road accidents. The findings from this study can inform

the development of targeted interventions and policies to enhance road safety and reduce the occurrence of accidents.

The sample for this study will consist of a diverse group of licensed drivers from different age groups, genders, and socio-economic backgrounds. Participants will be identified through various channels, including online platforms, driving schools, and community organizations. The data collected will be analyzed using appropriate statistical methods and thematic analysis for the quantitative and qualitative data, respectively.

By examining the relationship between driver attitudes and risk-taking behavior, this study aims to provide valuable insights into the psychological and behavioral factors contributing to road accidents. The findings will have implications for road safety management, enabling the development of evidence-based interventions targeting driver attitudes and risk perception. Ultimately, the goal is to promote safer driving practices, reduce road accidents, and enhance overall road safety for the benefit of society.

Road safety is a critical concern worldwide, with millions of lives lost and injuries sustained due to road accidents each year. While numerous factors contribute to these accidents, driver attitudes and risk-taking behavior play a significant role. Understanding the relationship between attitudes and risk-taking behavior can provide valuable

insights for road safety management and the development of effective interventions.

Overall, this study aims to shed light on the complex interplay between driver attitudes, risk-taking behavior, and road safety. By addressing these factors, it is hoped that significant strides can be made in improving road safety outcomes and protecting the lives of motorists, passengers, and pedestrians.

Having the right driving attitude goes beyond just adhering to traffic rules and regulations. It involves showing courtesy, empathy, and respect towards fellow drivers, pedestrians, and cyclists. A responsible driver with a good attitude remains patient in heavy traffic, yields the right of way when necessary, and avoids aggressive behaviors like tailgating, speeding, or road rage.

A positive driving attitude contributes to a safer and more enjoyable driving experience for everyone on the road. It reduces stress, promotes efficient traffic flow, and helps prevent accidents that can result from careless or aggressive driving. This attitude is especially important as roadways become more congested and diverse in terms of the types of vehicles and users sharing the space.

In this discussion, we'll explore the key components of a positive driving attitude, the benefits it offers, and strategies to cultivate and maintain such an attitude for the overall well-being of drivers and society.

A positive driving attitude entails being patient, courteous, and considerate towards other drivers, pedestrians, and cyclists. It involves following traffic rules and regulations, maintaining a calm demeanor in challenging situations, and practicing defensive driving techniques. Such an attitude not only contributes to personal safety but also fosters a harmonious and cooperative environment on the road.

Conversely, a negative driving attitude characterized by impatience, aggression, and disregard for traffic rules can lead to road rage, accidents, and conflicts with other road users. It contributes to a stressful and potentially dangerous driving environment.

Cultivating a responsible and respectful driving attitude is essential for promoting road safety, reducing accidents, and ensuring a smoother flow of traffic. This involves understanding and empathizing with the perspectives of fellow drivers, adapting to changing road conditions, and prioritizing the safety and well-being of all road users.

In this discussion, we will delve deeper into the various aspects of driving attitude, its impact on road safety, ways to cultivate a positive driving attitude, and strategies to manage stress and challenges while driving. By understanding the significance of driving attitude, we can work towards creating a safer and more pleasant road experience for everyone.

Developing a responsible driving attitude is essential for creating a safer and more harmonious traffic environment. It involves cultivating qualities such as patience, empathy, and mindfulness while behind the wheel. A positive driving attitude contributes to reducing the number of accidents, minimizing road rage incidents, and enhancing overall road safety.

This work will explore the various components of driving attitude, its importance in promoting road safety, the consequences of both positive and negative attitudes, and strategies for cultivating a better driving attitude among individuals. By fostering a culture of respect and awareness on the road, we can collectively work towards creating a safer and more pleasant driving experience for everyone.

AIM AND OBJECTIVE OF THE STUDY

The aim of the study is to investigate the relationship between attitudes and risk-taking behavior of drivers to contribute to road safety management. The study will employ a quantitative research design to gather numerical data and analyze the relationship between attitudes and risk-taking behavior. This design will provide a systematic and structured approach to collecting and analyzing data.

Objective of the Study

1. To assess the attitudes of drivers towards road safety and traffic regulations.

2. To explore the risk-taking behaviors exhibited by drivers.
3. To examine the relationship between attitudes and risk-taking behavior.
4. To identify the factors influencing driver attitudes and risk-taking behavior.
5. To provide insights for road safety management strategies based on the findings.

RESEARCH METHODOLOGY

Data Collection

Primary data will be collected using surveys/questionnaires administered to the selected drivers. The survey will include questions related to attitudes towards road safety, risk perception, and self-reported risk-taking behavior. Additionally, demographic information such as age, gender, driving license, and previous traffic violations may also be collected.

Data Analysis

The collected data will be analyzed using appropriate statistical techniques. Descriptive statistics will be used to summarize the characteristics of the sample.

Research Design

A research design is a systematic planning and directing a piece of research. It is a plan which indicates the observations that will provide answers to the questions posed by the researcher as to the observations will be made and the analytical and statistical procedures to be used once the data are collected, the

research design of this study is descriptive in nature.

Limitation of the Study

Responses to the Questionnaire from the guards were just minimum and were not up to the

expected level. However, this limitation could be overcome by studying the data available in the public domain especially from the Internet.

RESULT AND DISCUSSION

Table 1: Frequency percentage of age and gender of Respondent

Age Group	Gender		Total
	Male	female	
<21 Year	18	20	38
	32.7%	44.4%	38.0%
22-24 Year	33	21	54
	60.0%	46.7%	54.0%
25 and above	4	4	8
	7.3%	8.9%	8.0%
Total	55	45	100
	100.0%	100.0%	100.0%

The table 1 shows the tabulation of ages and gender of the respondents, ages are categorized as above 25+ years and below 21 years. 18 male with 32.7% and 20 female with 44.4% are aged below 21 years. 33 males with 60% and 20 females with 46.7% are aged 22-24 years. 4 males with 7.3% and 4 females with 7.3% are aged 25 years and above. In this table we conclude that majority of age and gender is 22-24 and male.

Table 2: Frequency and percentage of attitude and risk-taking behavior of Respondent

Particulars	Frequency	Percent
No Risk	4	4
Low chances of Risk	76	76
Moderate chances of Risk	20	20
Total	100	100

The above table and graph show the frequency percentage of attitude and risk-taking behavior of drivers. In 100 members only 4 members are no risk-taking behavior of drivers, 76 members has less or low chances of taking risk and 20 members has moderate in risk taking behavior while driving.

CONCLUSION

Understanding and addressing driving attitudes and risk-taking behavior among drivers is paramount for enhancing road safety. The aggressive attitudes and increased accident rates, coupled with risky behaviors like speeding, underscores the need for comprehensive interventions.

In Individual Differences the drivers exhibit diverse attitudes and risk-taking behaviors influenced by personality traits, experience, and cultural factors and in Cognitive Factors the decision-making processes, including risk perception and assessment, play a crucial role in shaping driving attitudes. The Social Influence in Peer pressure, societal norms, and cultural expectations can contribute to risk-taking

behavior among drivers. The Traffic Environments External factors such as road conditions, traffic density, and weather can influence driving attitudes and risk-taking. The targeted interventions, including education and awareness campaigns, can potentially modify driving attitudes and reduce risk-taking behavior. And the technological solutions Advances in vehicle safety technologies and intelligent transportation systems can also contribute to mitigating risks associated with driving.

The driving attitude and risk-taking behavior of drivers have been subjects of significant interest and concern for road safety experts, researchers, and policymakers worldwide. These factors play a crucial role in determining the overall safety on our roadways. Understanding the relationship between driving attitude and risk-taking behavior is essential for developing effective strategies to mitigate traffic accidents and their associated injuries and fatalities.

In conclusion, the driving attitude and risk-taking behavior of drivers are critical factors affecting road safety. A comprehensive understanding of these aspects is essential for developing effective strategies to reduce accidents, injuries, and fatalities on our roads. This research is vital for promoting safer driving habits and creating a more secure and sustainable transportation system for all.

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