

BEHAVIOURAL PATTERN ANALYSIS OF DRIVERS

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INTRODUCTION

- Many accidents occur due to the unsafe, careless and dangerous driving of the driver. Even today, the problem of traffic safety concerns the worldwide.
- In order to better educate, manage, and restrain driver behaviours, from the perspective of human factors and psychology, we have devised some parameters including speed of the vehicle, acceleration etc.

OBJECTIVE

- This project proposes a more detailed approach to analyse one's driving skills and behaviour.
- The aim is to develop a scoring system for drivers under observation through which we can score them and decide whether they should be given permanent driving licences or not.

ABSTRACT

- The current provision of providing a permanent driving licence is one-time physical driving test which is not an efficient criterion for issuing driving licences.
- It is necessary to further explore the relationship between driver behaviour, vehicle status and road traffic environment to determine the drivers' comprehensive driving capability and thus issuing the permanent licenses accordingly.

METHODOLOGY

To implement the model, two cameras will be used.

- One camera will be placed on the dashboard of the vehicle which will click images of road through the vehicle.
- The other camera will be used to click images of the driver for seat belt check.

The images collected through these cameras will be stored and accessed from cloud.

CONCLUSION

- Since driving a vehicle not only involves safety concerns regarding the driver's life but it also includes the safety of other people using the same road.
- They can be other people driving their own vehicles or people crossing road.
- Therefore a person should be allotted with his permanent driving license only after doing certain analysis on his driving behaviour.

FUTURE SCOPE

- This approach for issuing permanent driving licences will help considerably in reducing road accidents as the driving licence will be issued to only those whose skills have been analysed and hence it is considered that they will drive safely.
- Although accidents are an unpredicted incident and we cannot be sure that a person with good driving skills for a certain period of time will never do an accident and always drive safe but still with the help of this model we can surely help in reducing them.

