

## **Statistical Analysis of Road Accidents Fatality**

### **Introduction:**

Vehicular accident has become one of the growing concerns in recent times. This is as a result of the tremendous effect of accidents on human lives, properties and environments. Many researchers have come out with the causes, effects and recommendations to vehicular accidents. This causes include drink driving, machine failure, over speeding, lighting and weather condition, road type etc.

### **Research Question/Objective:**

The mere increase in the number of accidents is not enough for one to conclude that really there is an increase in vehicular accidents; hence need to analyze the accidents data statistically to check whether there is any evidence of increase in accidents or not. If yes, then what are the causes? And how can we utilize our resources to reduce the fatality?

### **Methodology:**

This project work includes methodologies like the possible probability distributions of data (count data) and their likely regression models which may include the Poisson and Negative Binomial distributions, the Generalized Linear Models such as the Poisson and Negative Binomial regression models and the mixed effect model. Classification and Neural Network methods of analysis can be performed.

## Project:

Title  
Acknowledgments Page  
Abstract  
Table of Contents  
Chapter 1: Overview  
Chapter 2: Literature Review  
Chapter 3: Methodology  
Chapter 4: Analysis  
Chapter 5: Conclusion and Recommendation  
References

## References:

1. Secondary Data Source:  
<http://data.gov.uk/dataset/road-accidents-safety-data>
2. Classification and Prediction using Neural Networks  
By James McCaffrey  
<http://msdn.microsoft.com/en-us/magazine/jj190808.aspx>

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