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| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5675** |
| Title of the Manuscript: | **Analysing various Regression Models for Data Processing** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Journal of International Journal of Innovative Technology and Exploring Engineering, 8(8): 731-736, 2019.**

**DOI:** [**10.1504/IJICA.2017.10005901**](http://10.0.5.224/IJICA.2017.10005901)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This manuscript is significant for the scientific community as it demonstrates the practical application of various regression models in predicting vehicle velocity, which is crucial for advancements in intelligent transportation systems and traffic management.  By developing custom functions for regression analysis without relying on pre-built software, the study promotes a deeper understanding of the underlying algorithms and enhances reproducibility. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract of the article is comprehensive. It effectively summarizes the main focus of the study, which is to analyze various regression models—such as linear, multivariate linear, and nonlinear regression—using vehicle data for predicting vehicle velocity profiles. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript appears to be scientifically correct. It discusses well-established regression models and their application to vehicle velocity prediction, detailing methodologies such as MATLAB implementation, gradient descent optimization, and the use of various regression techniques like linear and multivariate regression. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The current references are insufficient. I recommend including around 25 references for better support. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Good |  |
| Optional/General comments | Added comments in the manuscript |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Hari Gonaygunta, University of the Cumberlands, USA**