

applied linear regression models pdf

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In statistics, linear regression is a linear approach to modelling the relationship between a scalar response (or dependent variable) and one or more explanatory variables (or independent variables). The case of one explanatory variable is called simple linear regression. For more than one explanatory variable, the process is called multiple linear regression.

Linear regression - Wikipedia

History. The earliest form of regression was the method of least squares, which was published by Legendre in 1805, and by Gauss in 1809. Legendre and Gauss both applied the method to the problem of determining, from astronomical observations, the orbits of bodies about the Sun (mostly comets, but also later the then newly discovered minor planets).

Regression analysis - Wikipedia

Keras is a deep learning library that wraps the efficient numerical libraries Theano and TensorFlow. In this post you will discover how to develop and evaluate neural network models using Keras for a regression problem.

Regression Tutorial with the Keras Deep Learning Library

JOURNAL OF LATEX CLASS FILES, VOL. 14, NO. 8, AUGUST 2015 1 Deep Learning and Its Applications to Machine Health Monitoring: A Survey Rui Zhao, Ruqiang Yan, Zhenghua Chen, Kezhi Mao, Peng Wang, and Robert X. Gao

JOURNAL OF LA Deep Learning and Its Applications to

Highlights PLS applied to distillation curves enables the prediction of octane numbers. For MON and RON, the fractions lower than 60% v/v were the most important variables. The paraffins and ethanol content has the highest influence on MON. The paraffins content has the highest influence on MON. The method produced highly accurate results and is suitable for routine analysis.

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