Annotated Bibliography

GeeksforGeeks. (2024, June 20). *Logistic regression in machine learning*. GeeksforGeeks. https://www.geeksforgeeks.org/understanding-logistic-regression

This webpage introduces us to logistic regression, its various characteristics, and its use cases. Here, logistic regression is used for binary classification, which uses a sigmoid function. It takes an input and outputs the probability that the input belongs to a class. Like Linear regression, logistic regression also predicts values based on the features and then uses the sigmoid function to compute their probabilities. It provides a good introductory guide to logistic regression for beginners.

Ibm. (2024, December 16). *What is supervised learning?* IBM. https://www.ibm.com/think/topics/supervised-learning

This webpage discusses supervised learning and the types of tasks that fall under supervised learning. It explains a classification task and various models that can be used for classification. This helps us understand binary classes and provides a solid comparison between the models that could be used other than logistic regression. Although general in scope, the article situates logistic regression within the broader framework of supervised learning, helping readers understand its role in machine learning.

Lukman, A. F., Kibria, B. M. G., Nziku, C. K., Amin, M., Adewuyi, E. T., & Farghali, R. (2023). K-L Estimator: Dealing with Multicollinearity in the Logistic Regression Model. Mathematics, 11(2), 340. <https://doi.org/10.3390/math11020340>

In training logistic models, it is essential first to analyse the data given and determine how best to prepare it for model training. This scholarly article mentions how multicollinearity between features can poorly affect the performance of logistic regression models. This source provides a more profound theoretical perspective on data preparation for logistic regression, complementing the practical insights of other entries.