A2. Regression

***Confusion matrix***, an essential tool in evaluating the performance of a classification model, encompasses elements representing True Positive, True Negative, False Positive, and False Negative values. One can generate this matrix by utilizing the code provided below, facilitating a clear understanding of the model’s predictive accuracy and errors. Furthermore, validation techniques ensure the model’s robustness, guard against overfitting, and enhance its generalization capabilities.

## Resources utilized:

https://www.analyticsvidhya.com/blog/2020/04/confusion-matrix-machine-learning/