Machine Learning, I DATS 6202

Final Report

Group 2

Stroke Prediction

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**ABSTRACT**

Stroke is a life-threatening condition in which the blood flow to the heart is disrupted, leading to Heart Attack. According to the World Health Organization (WHO), stroke is the leading cause of death and disability worldwide. Early recognition of the warning signs of a stroke and prompt medical attention can reduce the severity of the condition. This study aims to develop machine learning models to predict the likelihood of a stroke. Different algorithms, including Logistic Regression (LR), Decision Tree (DT) Classification, Random Forest (RF) Classification, and SVM, were trained on the open-access Stroke Prediction dataset. The results of this study indicate that the models developed in this investigation are more reliable compared to previous studies and provide promising accuracy for predicting strokes.

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