

IRIS Flower Classification Using Machine Learning

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Abstract: *This study employs machine learning techniques, specifically the Random Forest classifier, to accurately identify different species of Iris flowers based on key morphological attributes. By training the model on measurements of petal and sepal lengths and widths, the research aims to uncover patterns that enable the classification of unseen Iris samples into their respective species. The primary objective is to develop a reliable prediction model that simplifies and automates the process of species identification. This work highlights the effectiveness of data-driven approaches in botanical classification and showcases the practical application of machine learning in real-world categorization tasks. The model not only enhances the accuracy and efficiency of plant species recognition but also serves as a valuable example of machine learning's potential in the field of biological sciences.*

Keywords: Machine Learning, Web Application, Random Forest Classifier, Real-Time Prediction

