

# Author Identification of IEEE Using ML

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**Abstract:** *Author identification, a captivating area of exploration within natural language processing, seeks to distinguish the individual writing styles of different authors. This project focuses specifically on English literature, a multifaceted and culturally significant literary tradition. The main aim is to develop a robust machine learning model capable of accurately assigning English texts to their respective authors by analyzing their unique writing patterns. Beginning with gathering and preprocessing a comprehensive dataset of English literary texts spanning various authors, genres, and historical periods, the project ensures data quality and consistency through text cleaning and tokenization. The critical phase involves selecting the most suitable machine learning algorithm for author identification. Techniques like Naive Bayes, Support Vector Machines (SVM), Random Forest, and transformer-based models are assessed for their effectiveness.*

**Keywords:** Author identification, SVM, machine learning, English literature, text analysis

