Primary Approaches to Text-based Classification

There exist two prevailing types of solutions to text-based classification problems. One is a rules-based text classification.

In the rules-based text classification method, one employs the use of manually constructed logical rules to classify to , such an

implementation would resemble an extensively built and potentially nested if-else statements [1]. Because of the mait is expected to

come with some maintenance overhead as business rules evolve over time.

For machine-learning-based text classification, one trains and tunes a supervised machine learning model to process y bodies of text.

This path requires significant but non-repetitive upfront time and effort to build the training data set as well as fine-to classify bodies of text

[1]. However, it is expected to better handle the nuances of the language it has been trained on as compared to the Typical Natural Language Processing (NLP) requires a preprocessing stage where the source raw bodies of text are coner that a machine learning algorithm can ingest and process [2, 3]. This is a necessary dependency for the machine dapproach.

Purpose of Rules-based Approach

The purpose of the Rules-based approach in the context of using a rule engine is to abstract away the implementation omplex if-else

statements and enables us to reconfigure the rules freely for sake of experimenting which is crucial for this initial statements and enables us to reconfigure the rules freely for sake of experimenting which is crucial for this initial statements and enables us to reconfigure the rules freely for sake of experimenting which is crucial for this initial statements and enables us to reconfigure the rules freely for sake of experimenting which is crucial for this initial statements and enables us to reconfigure the rules freely for sake of experimenting which is crucial for this initial statements and enables us to reconfigure the rules freely for sake of experimenting which is crucial for this initial statement which is crucial for the rules freely for sake of experimenting which is crucial for this initial statement which is crucial for the rules freely for sake of experimental freely for sake of experiments and the rules freely freely

accomplish just this very goal in [5].

In the context of the use case of performing property and loan segmentation on our own data set, it is the first step machine learning model

to take over the classification of properties and their associated loans.