

Title: ROUGH SET THEORY BASED DATA ANALYSIS TOOL

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Guided by: Dr. Vanita Agarwal

Abstract:

With the colossal amount of data that is being generated every day over the internet, the need for reliant, efficient and easy to use data analysis tools is rising. To discover patterns in Big Data is essential for various business organizations and in fact, Intelligent information analysis is one of the buzzing issues in the field of Artificial Intelligence today. Often in real life, the data available for analysis is inconsistent and unfiltered. To perform knowledge discovery on such data, we need tools that could perform this task without the use of heavy hardware resources. The main aim of our project is to create a data analysis tool based on Rough Set Theory, which could serve the purpose of providing crucial insights into inconsistent data without the requirement of heavy hardware resources. A Graphical User Interface has been designed and developed for this purpose. This application has been deployed over the internet, so that anyone with access to internet, could tap into the immense potential of Rough Set Theory to perform data analysis, as well as, solve the tedious problem of Missing Attribute values in a database

Title: REAL TIME SOCIAL MEDIA EMOTION ANALYSIS

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Abstract:

Nowadays the Social media contains huge amount of information of its users. Extraction of such information gives us several uses in many different fields. For example, in the biomedical and healthcare sectors, this method of extraction of data providing various benefits such as knowledge about the latest technologies, updates of current situation in medical field. Twitter is an online microblogging and social-networking platform. It is rapidly expanding service. Approximately half of registered users are active users and half of active users log on twitter on daily basis generating near to 500 million tweets per day. Twitter allows application developer to access the tweets for their use. In the implemented system, tweets are collected from twitter using python library (for accessing the twitter API). Twitter emotion analysis is difficult as compared to general emotion analysis due to presence of slang words and misspelling also we constantly encounter new words. Twitter allows users to write and share posts of a limited number of characters, numbers and symbols to their followers. Hence extracting valuable information from short texts is yet another challenge. Knowledge based approach and machine learning approach can contribute considerably towards emotion analysis from tweets. In this project work after collecting tweets from twitter, emotion analysis is performed on them; that is classification of tweets according to the emotion expressed in them; happy, sad, angry, surprise and neutral. In the present work, the gaussian naïve bayes algorithm is used for emotion analysis. Based on the result of this implemented system (Emotion analysis) user can get few suggestions. For example, the implemented system can perform emotion analysis on data related to patient's and consumer's opinions on various treatments and drugs. Results obtained from these can provide up-to-date information for the hospitals, pharmaceutical industry, and medical staff, on the effectiveness or ineffectiveness of the treatment. In this way, the implemented system can help in improvement in decision taking in various sectors such as companies trying to get critical reviews about their products from people worldwide, filmmakers trying to find response of their product in market, predicting political elections, predicting socioeconomic phenomena like stock exchange.

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