Experiment 1: Case study on machine learning papers

Name: Mushrifah Hasan

Roll No: CS116006

Date:15th January 2019

Paper 1:

TOPIC: Sentiment Analysis for Social Media

Abstract—In the past years, the World Wide Web (WWW) has become a huge source of user-generated content and opinionative data. Using social media, such as Twitter, facebook, etc ,user share their views, feelings in a convenient way. Social media, such as Twitter, facebook, etc, where millions of people express their views in their daily interaction, which can be their sentiments and opinions about particular thing. These ever-growing subjective data are, undoubtedly, an extremely rich source of information for any kind of decision making process. To automate the analysis of such data, the area of Sentiment Analysis has emerged. It aims at identifying opinionative data in the Web and classifying them according to their polarity, i.e., whether they carry a positive or negative connotation. Sentiment Analysis is a problem of text based analysis, but there are some challenges that make it difficult as compared to traditional text based analysis This clearly states that there is need of an attempt to work towards these problems and it has opened up several opportunities for future research for handling negations, hidden sentiments identification, slangs, polysemy. However, the growing scale of data demands automatic data analysis techniques. In this paper, a detailed survey on different techniques used in Sentiment Analysis is carried out to understand the level of work.

<https://ieeexplore.ieee.org/document/7371033>

Paper 2:

TOPIC: A Brief Review on Sentiment Analysis

Abstract— This paper presents a brief review on sentiment analysis. To mine the opinion on the web, it is essential to perform a well defined task, which helps us to retrieve the information from the available data on the web. We have started our discussion with the introduction on sentiment analysis, which gives us a insight into sentiment analysis. The detail discussion on various methods proposed by different researchers is also presented. Different types of sentiment analysis techniques give a research direction in different directions. Finally a method is proposed based on the naïve bayes classifier.

<https://ieeexplore.ieee.org/document/7755213>

Paper 3:

TOPIC: Feature based opinion mining

Abstract-In olden days people were only information consumers but since advent of Web 2.0 they plays more important role in publishing information on Web in the form of comments and reviews. The user generated content forced organization to pay attention towards analysing this content for better visualization of public's opinion. Opinion mining or Sentiment analysis is an autonomous text analysis and summarization system for reviews available on Web. Opinion mining aims for distinguishing the emotions expressed within the reviews, classifying them into positive or negative and summarizing into the form that is quickly understood by users. Feature based opinion mining performs fine-grain analysis by recognizing individual features of an object upon which user has expressed opinion. This paper gives an insight of various methods proposed in the area of feature based opinion mining and also discuss the limitations of existing work and future direction in feature based opinion mining.

<https://ieeexplore.ieee.org/document/7154839>

Paper 4:

TOPIC: Opinion mining from user reviews.

**Abstract:**

Due to advancement of technology and mainly Internet, the concept of marketing and selling of product has reached to a new level. Now-a-days, lots of companies rely on user reviews for launching their product. These reviews play an important role or companies to know how their product has been accepted in the market. But, today, thousands of reviews are generated for a product. Companies have to process each of these reviews to get user opinion as well as ideas, which is a very tedious and time-consuming. This paper discourses about extracting opinions from the user reviews is semi-automatic, in the sense that it requires some amount of expert assistance. Expert assistance is required for building the domain knowledge for the system, so as to make the system learn about the domain specific words]. The proposed system, using domain knowledge, identifies and extracts the opinions for a given product. These extracted opinions include the opinion words, their polarity in from of weights and for which feature these opinions was provided and system aggregates the extracted opinions them for better display.

<https://ieeexplore.ieee.org/document/7095904>