Chapter 14
A Comprehensive Study of Data Analytics in Social Perspectives

Arram Sriram

https://orcid.org/0000-0002-8250-5437
Anurag Group of Institutions, India

Prasanth Rao Adhiraju

https://orcid.org/0000-0002-5119-3987
Anurag Group of Institutions, India

Praveen Kumar Kalangi

Anurag Group of Institutions, India

Sathiyamoorthi V.

https://orcid.org/0000-0002-7012-3941
Sona College of Technology, Salem, India

ABSTRACT

Social media websites enable users to create and share content or to participate in social networking. The main advantage of social media is the ability to communicate with different people to share their knowledge and discuss social events. The impact of social media on people and their behavior is enormous and also solves many problems if it works fine. But there may be negative aspects as well when they are exchange their ideas between people of very different cultures, religions, different age group, and misbehavior of a few users. These problems are addressed using data analytics, which takes people context into account, learns from it, and takes proactive steps according to their situation and expectations, avoiding user intervention as much as possible. This chapter presents all possible problems in social media and enabling those scenarios with effective solutions.

INTRODUCTION

Social media has evolved over the last decade to become an crucial driver for acquiring and spreading facts in different domains, consisting of business (Beier & Wagner, 2016), entertainment (Shen, Hock Chuan, & Cheng, 2016), science (Chen & Zhang,2016), disaster management (Hiltz, Diaz, & Mark, 2011; Stieglitz, Bunker, Mirbabaie, & Ehnis, 2017a) and politics (Stieglitz & Dang-Xuan, 2013). One purpose for the recognition of social media is the possibility to receive or create and percentage public messages at low charges and ubiquitously. The enormous boom of social media utilization has brought about an growing accumulation of information, which has been termed Social Media Big Data. Social media systems offer many opportunities of information formats, consisting of textual information, pictures, videos, sounds, and geolocations. Generally, this information may be divided into unstructured information and established information (Baars & Kemper, 2008). In social networks, the text is an instance of unstructured information, even as the friend/follower dating is an instance of established information.

The boom of social media utilization opens up new possibilities for analyzing numerous elements of, and styles in communication. For instance, social media information may be analyzed to benefit insights into issues, trends, influential actors and different types of facts. Golder and Macy (2011) analyzed Twitter information to have a look at how people's temper modifications with time of day, weekday and season. In the field of Information Systems (IS), social media information is used to have a look at questions consisting of the influence of community function on facts diffusion (Susarla, Oh, & Tan, 2012).

Many current studies papers are remoted case studies (Kim, Choi, & Natali, 2016; Li &Huang, 2014; Oh, Hu, & Yang, 2016) that gather a big information set for the duration of a specific time body on a specific problem and examine it quantitatively. Despite the type of disciplines such initiatives may be determined in, they've a good deal in common. The steps essential to benefit beneficial facts or maybe understanding out of social media are frequently similar. Therefore, the field of "Social Media Analytics" objectives to combine, extend, and adapt techniques for the evaluation of social media information (Stieglitz, Dang-Xuan, Bruns, & Neuberger, 2014). It has received considerable interest and sooner or later every day in instructional studies, however there may be nonetheless a loss of complete discussions of social media analytics, and of general fashions and approaches. Aral, Dellarocas, and Godes (2013) provided a framework to prepare social media studies, and van Osch and Coursaris (2013) proposed a framework and studies schedule explicitly confined to organizational social media. Both frameworks are geared closer to classifying regions of studies and, by extension, studies questions, now no longer techniques to cope with those questions. While such frameworks are beneficial to determine what to studies, and to find individual initiatives inside a bigger context, they do now no longer offer steering on a way to convey out the studies, and which demanding situations may arise. Of course, there may be also studies that discusses demanding situations researchers face whilst using specific techniques for reading social media information, consisting of social community evaluation (Kane, Alavi, Labianca, & Borgatti, 2014) or opinion mining (Maynard, Bontcheva,& Rout, 2012), and there are literature opinions centered on specific goals consisting of the identification of customers who're influential offline (Cossu, Labatut,& Dugué, 2016) or on specific subjects consisting of social bots (Stieglitz, Brachten, Ross, & Jung, 2017b). Yet social media analytics is composed of numerous steps, of which information evaluation is simplest one. Before the information may be analyzed, they ought to be discovered, collected, and prepared. An evaluate of the demanding situations of social media analytics is wanted as a way to manipulate the complexity of carrying out social media analytics.

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