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Live Streaming Data Analysis using Distributed Stochastic Bi-LSTM Model

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Abstract:
In the real world, currently there are more than millions bytes of social media data being created. With the help of modern computational capacity in addition to advanced research in the field of artificial intelligence, a great improvement is shown in natural language processing using deep learning techniques. These AI techniques including machine learning algorithms and deep learning algorithms make it possible to analyze the given tons of data. In addition to it, it also helps us to have a deep dive knowledge in people's mindset towards the current trend in media application. There is another problem of cyber bullying wherein many people start sharing and posting anonymous and fake information to make a significant impact by making riots just as fake heroes. By continuously monitoring these types of online riots will provide a clean and peaceful environment which in turn supports the government in a better way. This article focuses on performing sentiment analysis over a given real time social media data by categorizing it. The effective analysis of live streaming from social media applications is done with word2vec embedding method in natural language processing and trained using bi-directional LSTM model. The performance is compared with the LSTM model, and traditional machine learning techniques like naïve bayes and linear regression model and Bi-LSTM model outperforms the other techniques with 80%-85% accuracy with live streaming unconventional social media data.

Contents

I. Introduction

Data analysis currently exists as a process of investigating, pre-processing, transforming the data in addition to modeling the data. The aim is to discover utilizable information and knowledge, apprising conclusions and fortifying right decision-making [1]. Data analysis has various categories in addition to approaches that encompass multiple techniques with a large number of fields that are currently used in different kinds of businesses, physical science and scientific real time domains. In the recent technological era, data analysis plays a very important role in making right decisions and skills with more scientific knowledge in providing the business opportunity that can operate more effectively [2]. Sentiment analysis examines the end user opinions, their perspectives, feelings towards any subject. It helps to classify any message that falls under the category of positive, negative and neutral. Social media applications such as Facebook, twitter, Instagram, etc paves a way for the people to share their experience and thoughts on current trends, technologies, business, science and politics [3].

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