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IMPLEMENTATION OF AI-BASED SOCIAL MEDIA FORVULGAR CONTENT DETECTORANDREMOVER

Aarti Burghate*1, Poonam Bramhane*2, Pranjali Kanhekar*3, Ruchika Parate*4, Anjali dongre*5, Pranjal kuhikar*6

*1Assistant Professor, Department of Information Technology NIT Nagpur *2,3,4,5,6Undergraduate Scholars, Department of Information Technology NIT Nagpur

ABSTRACT

The rapid growth of social media has made it a primary source of communication and information for millions ofpeople. However, this has also led to an increase in the amount of vulgar and inappropriate content appearing onthese platforms. To address this issue, this project proposes the development of an AI-based solution for detecting and removing vulgar content from user-generated content in social media platforms. The account of the content of tlearning algorithms, specifically deep neural networks, accurately detect vulgarcontentinrealtime. Alargedata set of vulgarand nonvulgar textwas collected and preprocessed to train the model ensuring its effectiveness in detecting vulgar content. The model was fine-tuned using transfer learning to improveitsperformance. The trained model is integrated into the backend of the social media platform, where it automaticallyflagsandremovesanyvulgarcontentdetectedinusergeneratedcontent. The solution is designed to be eff icientandscalable, allowing it to handle the large volume of content generated on social media platforms. The solution is continuouslymonitoredandupdatedtoensureitsaccuracyandeffectiveness. This includes retraining the model with additional to improve its performance and adding new features emerging trends in vulgar content. The implementation of this solution promotes as a fer and more inclusive on line environmentation of the content of theonmentforusers, while also following ethical and legal guidelines for online content moderation.

Keywords: Instagram, Social Network, VulgarContent

I. INTRODUCTION

Social media means the communication between human directly or indirectly on the electronics device throughinternet. The most popular social media platforms are Facebook, WhatsApp, Twitter, Instagram, LinkedIn etc. Andsocial media has become very much a part of our life that we started socializing on social mediavirtuallyinsteadofphysically. Social media has bethpositive and negative effects. So, it is upto the user and up to the rule of that country in what way the social media should be used. Natural Language Processing is a branch of artificial intelligence between computers and humans using the natural language. During the last few years, there has been an increasing body of research understanding hat eful language in fields including Natural Language Processing (NLP), Artificial Intelligence. It is very much important to understand that this behavior cannot only immensely affect the life of an individual oagroup but could be suicidal in some cases adversely hampering the mental health of the victim.

II. INSTAGRAM

Instagram is a free image and video sharing application available of iPhone and Android. People can upload imageor videos to our service and share them with their followers or with a select group of friends. They can alsoview,commentandlikepostssharedbytheirfriendsonInstagramallowsuserstoeditanduploadphotosandshortvi deosthrough a mobile application. Users can add a subtitle to each of their posts and use hashtags and location-basedgeotagstoguide thesepostsandmake themsociableby otheruserswithinthe app...

III. METHODOLOGY

ThiswebapplicationwascreatedusingthePythonDjangoFramework.We'llincludeaCNNalgorithmwithartificialinte lligence.Theabilityofartificialintelligencetoclosethegapbetweenhumanandcomputerskillshasbeengrowingdram atically. Both professionals and amateurs focus on many facets of the field to achieve great results. The field ofcomputervisionisoneofseveralsuchdisciplines.Inrecenttimes,CNNshaveexcelledinanumberofNLPtasks.OurCN Nsimulationismotivatedby(Kim,2014).Weprovideabrand-newdeeplearning-basedmethodforautomaticallyrecognizing.



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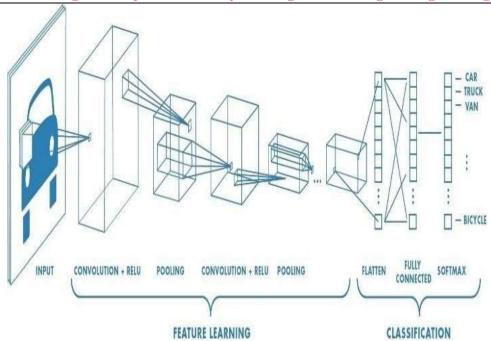


Figure1:CNNAlgorithm

IV. MODELINGANDANALYSIS

In this section, we will describe in detail the text classification model based on CNN used in this study. The flowchart of the model, as shown in Figure 2, including three modules: text representation, classifier training, and performance evaluation.

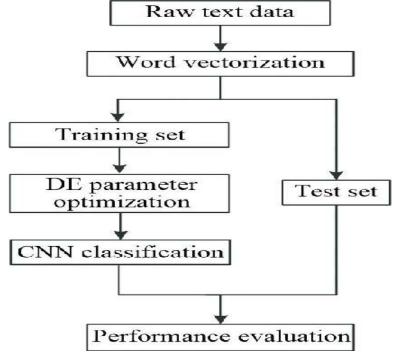


Figure 2: Flow Chatof CNN Algorithm

In the past few decades, Deep Learning has proved to be a very powerful tool because of its ability to handle largeamounts of data. The interest to use hidden layers has surpassed traditional techniques, especially in patternrecognition. One of themost popular deep neural networks is Convolutional Neural Networks indeep learning.



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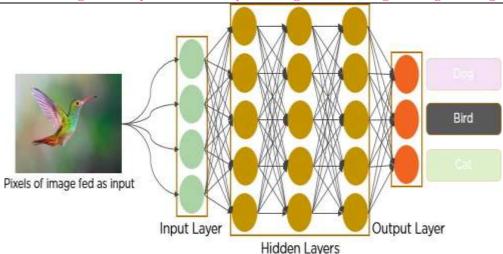


Figure3: Modelingand Analysis

V. RESULTSANDDISCUSSION

SearchSystem/Message/Post/Notification/Settingwillbeworkingproperly.

Notifications: - Notifications means it gives some information about what is going on, on our website or someupdates. When people follow you and like or commenty our postthat show in the notification.

Search:-

HearyoucanfindthepeoplebytheirnamesandtheirIDssoyoucanmakethemyouronlinefriends. Youcansearchonsoci al mediausingkeywordsand youcan findphotosandvideos, hashtags, and tags.

Message: - A message is a communication or statement conveyedfrom one person to another. An interactive exchange of messages from a conversation. A message may be delivered by various means, including courier telegraphy, carrier pigeon and electronic bus.

Post: - People can upload photos or videos to our service and share them with their followers or with a selectgroup offriends. They can also view, comment and like posts shared by their friends on Instagram.

Algorithm willoperate all thesettings:-TheNodesarecompletelylinkedtoallnodesinthelayerbelowthemina networkthat is fully connected. This generates a sophisticated model to investigate all CNN connections betweennodes. The intricacy, however, comes at a greatcost when training the network.

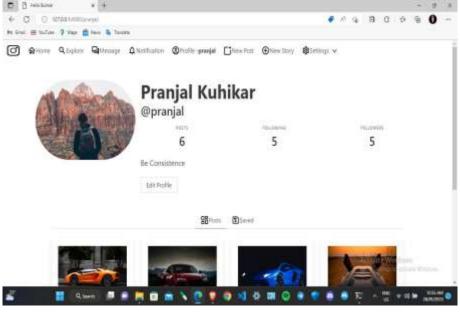


Figure4:Profile



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VI. CONCLUSION

We can make our social media web application that provides all facilities like Instagram. A social media app likeInstagram interacts with the attention of the public, check out this post. In it, we provide a quick and easyto-follow step-by-step guide on how to make a social media app that can easily get a lot of engaged followers andeffectivelyspreadyourbrand'simageonline. An Instagram-like social media app is an application that enables users to freely produce, assess, and consume content delivered as a mixture of text, sound, videos, and pictures at any time of the dayor night. No doubt, the social media landscape has changed drastically in recent years. media has evolved into a direct- to-consumer format wherepeople are used to presentingandreceivingpersonalized content. the implementation of an AI-based social media platform for detecting and removing vulgar content has the potential to create a safer and more comfortable online community for utilizing users. By language processing and machine learning techniques, the platform can automatically analyze user generated contentandflag any posts or comments that contain offensive language or imagery. The platform also includes userfacingtools for reporting and removing offensive content, as well as mechanisms for penalizing or banning users whorepeatedlyviolatecommunityguidelines.

While the development of such a system requires a team of experts in various fields, including NLP, machinelearning, software development, and UI/UX design, the benefits of creating a safer and more positive onlinecommunity make it a worthwhile endeavor. It is also important to keep in mind the importance of data privacyandsecurityregulationswhenworkingwithuser-generatedcontent.

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