IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 6, May 2022
Impact Factor: 6.252

Cloud Based Image Web Service

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Abstract: *This is a Web and Machine Learning based project which is basically designed to help people share their experiences with others and also react to other's posts and even comment on them. The whole application is designed using React, Redux, Express JS, Node Js, MongoDB and python. We have three major sections in the project namely the website which contains the entire ui along with backend API's, the second part is the deployment of the website on AWS cloud and the last part is the machine learning integration with the website which includes spam detection and image processing. We used qualitative data like comments and reviews for spam filtering to separate out the unwanted comments and also the negative ones posted on various images by viewers on the blog. We use an advanced recommendation engine for suggesting people the same kind of images, like images with similar backgrounds and similar objects, buildings and other objects.*

Keywords: A.I., M.L., React, Redux, Express JS, Node Js, MongoDB and python

I. INTRODUCTION

The aim of this project is to bring people with similar mindset and similar likes and dislikes together, this is done via showing them exactly who in rest part of worlds doing similar things as them like the similar things as they do and overall giving them a platform where they can share their similar memories together, have a little conversation over their plans and by removing those negative comments and spams we are trying to make platform more on a positive.

This blog site contains all the necessary features like authentication, comments and reviews, tagging, add mode, view only mode, different type of user configuration[guest, logged], images and finally we are going deploy on aws cloud service

II. PROBLEM STATEMENT

Introducing a blog site which can not only take the reviews of the viewers of blogs but also show them the similar objects and places and at the same time maintain a positivity throughout their experience. While doing this take their feeds also and arrange them with the respective tags or if its image then segregate the uploaded images based on the similar images.

Keeping the viewer and editor separate is also a challenging task when it comes to deciding what rights a viewer should have in view mode and upto what extent they have viewing access over the data that flow through this blog. As privacy is also an utmost priority that's why we have to make a clear separation between what an editor and what a viewer can do.

While suggesting the images we have to keep in check what images to show and what not and in this tags will be helpful not only this we are going to allow people suggest any preferable tag for a particular image.

In add mode we are letting people to choose what content they want to share with others their past experience but at the same time we need to keep in check that no vulgar or abusive or any content which can do any mentally or socially damage to either viewer or other editors should not get promoted

III. SOLUTION APPROACH

Blog application we are going to use react and node.js framework for an interactive user interface of the blog so as to attract more user, as result we can generate a bigger pool of viewer and editors and as their count increases the more data we able to collect and will provide them with better suggestion and more specifically show them better and more similar images.

For recommendation and spam detection we are going to use some Machine learning algorithms, image processing and tagging for suggestions.

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IV. RESULT ANALYSIS

This project is about how to improve the relationship among people and for this reason, we incorporated three different points as features which if directly help viewers then indirectly the editors. The findings are as follows.

1. Bad comments omission –Removing the unwanted comments and improving the righteousness of the site gives the editors and creators a sense of motivation and keeps them away from the toxic aspect of competition and also motivates and improves relations between their viewers and them .
2. Reverse Image Search – Its an important feature of our blog application while not only help in promoting all kinds of contents of the creators and editor it also help let them search for people with same kind of thinking, hobbies, religion and region together and help in not only grouping them together but also help in further studying them and their likes and dislikes.

V. CONCLUSION

In the current decade with everything going online and so many people communicating with each other via social media, there should be a platform that will help them to communicate and share their opinion, which is what we tried to create in the project, but there are some challenges the most important one being to detect hate speech, for countering that we have a hate speech detection model that will not let any blogs enter the system that have words that come under hate speech.

Apart from that in order to give more features we have a machine learning model where user can search with images and get all blogs that match a particular image.

Also for the security purposes we have added json web tokens that will allow only verified users to login and add new blogs in the website, also there is a concept of sessions so that the user remains logged in for 3 hours.

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