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Real time video streaming web portal by using data mining

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Abstract : Content-based video extracting is very essential now-a-days . The exisiting algorithms of data mining are not directly applied to videos. This proposed work uses different data mining algorithms for searching, clustering, indexing and retrieving content-based videos. A system will be developed, where only admin can upload videos on server sorted based on category and are automatically uploaded on Server on the schedule provided by the admin. Users can watch videos online, they can download videos based on video summary and can rate videos that will be analyzed by the system. Videos that are less popular removes by the system automatically so that user's time will not be wasted for watching the least rated videos. Users can share videos with other registered users**.**

IndexTerms **– Data mining,real time video streaming.**

I. INTRODUCTION

The multimedia data including video, text, audio, and image have been produced massively. The digital videos rapidly became an important source for advertisements, education, entertainment, and promotions. The system proposes to maintain the repository of videos on Cloud Server as there is a need of large digital videos,

On the schedule provided by the admin videos are automatically uploaded on Cloud and are sorted based on the categories. Users can search for videos by keywords like author, title, date, so that content-based videos will be retrieved. Users can download the videos based on the summary provided for each video. The users can also watch and rate videos online so that the system can analyze the popularity of videos and this analysis is used further for deleting the least popular videos. Users can share videos with other registered users.

The following algorithms are used for implementing the above features:

- The clustering algorithm is used for sorting the videos based on categories.
- Indexing and prediction algorithms are used for searching and retrieving content-based videos from huge video datasets..

II. LITERATURE REVEIEW

In [1] used Elbow Rule to determine the optimal number of clusters and calculate the normalized standard deviation of Course Over Ground and Speed Over Ground of vessels in south Africa area .

In [2] they analyzed tweets from several records and using several sources like CNN health, BBC health, CBC health, everyday health, fox news health, GDN health care, good health, etc.

In [3] It could be very useful for data mining techniques in distributed systems with big data.

In [4] The research highlights the performance of different classification and clustering algorithms on the dataset..

III. PROJECT OBJECTIVES

a) The system proposes to maintain the repository of videos on Cloud Server and videos are automatically uploaded on Cloud Server on the schedule provided by the admin.

b) Sorting the videos based on categories using clustering algorithm.

c) Indexing and prediction algorithms are used for searching and quickly retrieving content-based videos from huge video datasets.

d) Users can also decide to download the videos based on the summary provided for each video.

e) Users can also watch the videos online.

f) Users can rate the videos so that system can analyze the popularity of videos and this analysis is used further for deleting the least popular videos.

g) Users can share videos with other registered users without using another platform in the proposed system.

IV. SYSTEM ARCHITECTURE DIAGRAM

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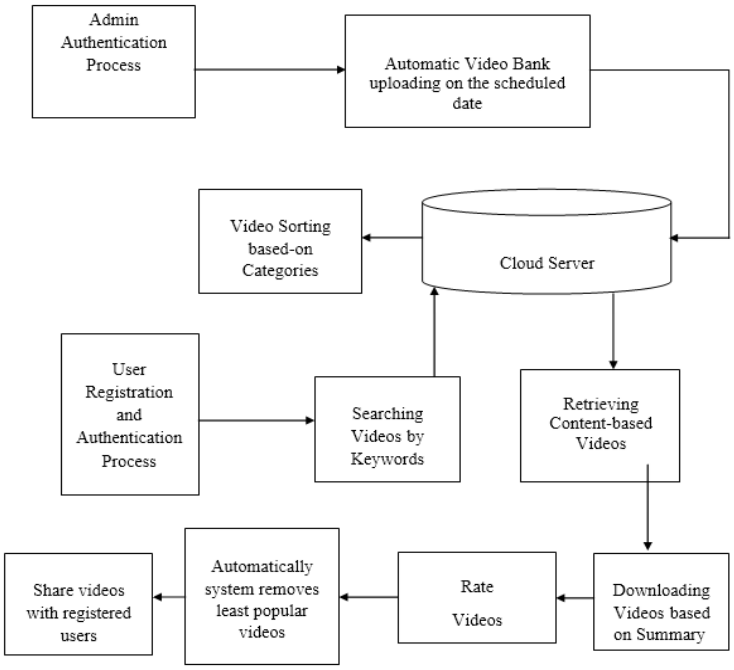
Figure : CLOUD BASED PLATEFORM FOR VIDEO-ON-DEMAND SERVICE



V. ACKNOWLEDGMENT

Perseverance, inspiration and motivation have always played a key role in any venture. It is not just the brain that matters most, but that which guides them. The character, the heart, generous qualities and progressive forces. What was conceived just as an idea materialized slowly into concrete facts.

At this level of understanding it is often difficult to understand the wide spectrum of knowledge without proper guidance and advice. Hence, we take this opportunity to express our heartfelt gratitude to our project guide Prof. Sneha Jeurkar who had faith in us and allowed us to work on this project.

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