

Measurement Study of Video Quality Using Users Feedback

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ABSTRACT

This paper, we analyse users' viewing behaviour and video quality. Understanding user viewing patterns, video popularity and video quality is important to design a VoD system. However, it is still lack of understanding in how users watch video and how the viewing depends on video quality. In this system we provide the quality video to users. Also gives facility to user for comment and feedback on that video quality many more. Feedback is more important factor for improving video quality and save the wastage of memory. Authority person have access to check all details for providing the users on video watching quality.

Keywords: Video Quality, User Behaviour, Video Popularity.

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I. INTRODUCTION

Video content constitutes a dominant fraction of Internet traffic today. Further, several analysts forecast that this contribution is set to increase in the next few years. This trend is fueled by the ever decreasing cost of content delivery and the emergence of new subscription- and ad-based business models. In the spirit of Herbert Simon's articulation of attention eco-nomics, the overabundance of video content increases the onus on content providers to maximize their ability to attract users' attentions.

This knowledge can help providers to better invest their network and server resources toward optimizing the quality metrics that really matter. Thus, we would like to answer fundamental questions such as:

1. How much does quality matter?
2. Impact of the user watching video with feedback?

This paper is a step toward answering these questions. We do so using a dataset which is unique in two respects:

1. Client-side:

We measure a range of video quality metrics using lightweight client-side instrumentation. This provides the facility to put the comment of feedback on that video.

2. Scale:

We present summary results from over 2 million unique views from over 1 million viewers. The videos span several popular mainstream content providers and thus representative of Internet video traffic today.

Naïve Bayes algorithm for analysis of video comment.

Step 1: It is loaded the user comment which will be classified as being ONE, TWO or THREE

Step 2: There are loaded the comments found in the program. The name of the files belonging to class ONE, TWO, THREE, respectively.

Step3: It is determined the a priori probability for each class

Step 4: It is determined the probability that the user comments from the Step 1 to be in class ONE, TWO or THREE. Let (i,j) It is calculated the probability.

Step 5: Clustering () of user comments.

Step 6: Classification of user comments.

Step 7: Final output of user comments to admin panel.

under different downloading strategies, we also showed that there exists improvement room for the data waste problem.

II. PROJECT OBJECTIVE

1) Data Collection

In our study, the data is collected from server side i.e. uploaded by authority person.

2) Data Overview

Each viewing record we collected contains multiple data fields. Users can view the video on user's panel and check the quality of video.

3) Video Set

Different types of video set are uploaded by authority person for increasing the popularity as well as measurement study of video quality.

4) Video Popularity

Video Popularity is proven to be an important factor for consideration in designing content replication strategy. It can help to predict the demand pattern for videos. The popularity value is usually calculated by 1) ordering all videos by their viewing counts in a past period; 2) Users can put the feedback on video quality.

III. SYSTEM ARCHITECTURE

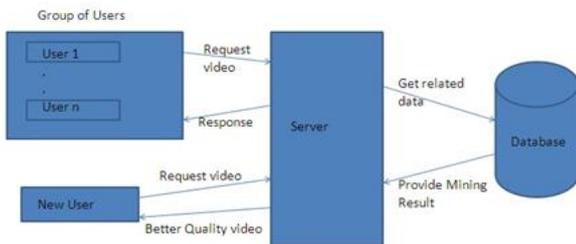


Fig. 1: System Architecture

Fig1 shows that the group of users can check the video uploaded by authority person. For users entertainments. But sometimes users cannot get the better quality of video. So this paper proposed the new concept regarding video quality. Proposed system can measure the video quality from users feedback or comment. Users can also facility to request the better quality video to the server.

Module A: Video Collection

In our study, the video uploaded by admin for use full to users. Here admin can view all details of video information as well users data

Module B: User Search Video

Here user can viewing video is identified based on device (video id), where video id is unique for each uploaded video.

Module C: Video Streaming (Play)

Our project is offline that's why video streaming is not see but we have solution this problem we apply the progress bar. If user can search video then first progress bar loading after that video is streamed.

Module D: User Comment on video quality

Video Popularity is proven to be an important factor for consideration in designing content replication strategy. It can help to predict the demand pattern for videos.

Module E: Play any way option

Play any way option is new concept in this project. If user can feedback negative on video quality etc. then video is not streamed(play) if you have play any way this video then we can see video by click option play any way.

IV. RESULT

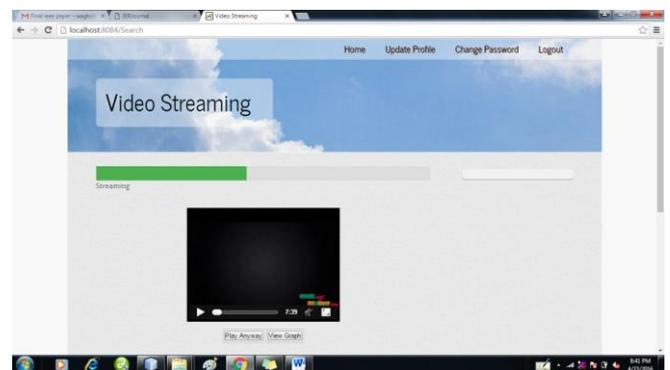


Fig 2. Video streaming before play

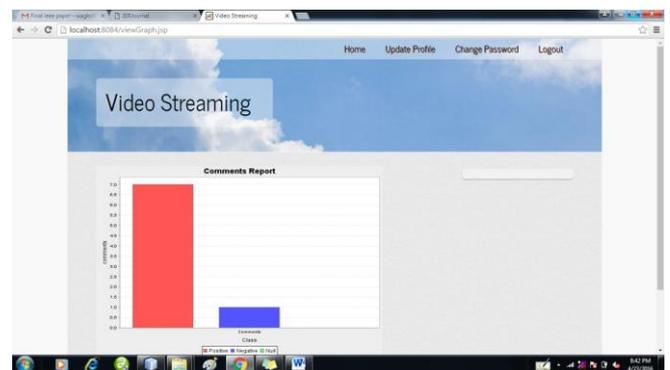


Fig 3. Graph Analysis base on user's feedback

V. CONCLUSION

We present the measurement study of video quality by searching the users. Also provide the feedback option on user's side for improving better quality video. In the course of our analysis, we also learned two cautionary lessons that more broadly apply to measurement studies of this video quality: the importance of using multiple complementary analysis techniques when dealing with large datasets and the importance of backing these statistical techniques with system-level and user con-text. We believe our study is a

significant step toward an ultimate vision of developing a unified quality index for Internet video.

Proceedings of the 2012 ACM Conference on Internet Measurement Conference, IMC '12.

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