Abstract

The world we live in is full of amazing art of science, where the role of technology is highly important. Hence, in such a conducive environment, major breakthroughs are bound to happen. One such major development which has brought a lot of positive results in the current scenario is how we save our information. Earlier, we used to save our data in tape-based hard-disks and floppy drives, whereas now we are saving our data in some remotely located server or cloud-based servers. However, it is quite evident that, with a positive aspect, there is always a drawback associated with it. One major drawback associated with the current practice of saving our data which cannot be ignored is situating the confidential files and folders at the risk of being exposed to unwanted people, so much so that the precious data loses its confidentiality and integrity. Another huge problem that arises with the usage of cloud is that, even in this day and age of artificial intelligence, where we are trying to predict and understand well in advance what other person is trying to say; searching on cloud is still not typo friendly. In this paper, we have tried to analyze the already existing fuzzy type searching algorithms and provide a completely innovative and more effectual method that aims at making searching typo
friendly and efficient in time & space on any platform, be it windows, local hosting servers, cloud or backend servers. The ASCII based algorithm that we are going to suggest, will have its focus on finding a method that provides results in effective & efficient manner and yet does not compromises on the data integrity and confidentiality of the data being searched or being stored on the cloud/server. In order to do so, we have also used the encryption and decryption techniques like AES algorithm which is very safe and efficient. Making a system friendly to fuzzy type keyword searching will enhance its usability and make it typo friendly. We shall be using ASCII coding in order to quantify keywords similarity and for constructing fuzzy keyword sets.

References


Index Terms

Computer Science  Security
Keywords

AES, Fuzzy type keyword, ASCII