

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

Permission Active Multi-Keyword Rated Exploration over Encrypted Portable Gloom Evidence through Blind Cache

Mrs. K. Pavani¹ & Mr. Y. Bharath²

¹Associate. Professor Department of CSE Vaagdevi College of Engieering, Bollikunta, Warangal and Telangana State, India.

²M-Tech in Computer Science Professor Department of CSE Vaagdevi College of Engieering, Bollikunta, Warangal and Telangana State, India.

Summary: In cell cloud computing, fundamental software is to outsource the cell data to external cloud servers for scalable information garage. The outsourced information, however, need to be encrypt due to the privacy and confidentiality concerns of their owner. These effects within the distinguished difficulties on the accurate seek over the encrypted mobile cloud facts. To tackle this difficulty, on this paper, we develop the searchable encryption for multi-key-word ranked seek over the storage records. Specifically, through thinking about the massive wide variety of outsourced documents (facts) in the cloud, we make use of the relevance rating and ok-nearest neighbor techniques to expand an efficient multi-keyword search scheme which can return the ranked search outcomes based on the accuracy. Within this framework, we leverage an efficient index to further improve the seek efficiency, and adopt the blind storage device to conceal get admission to sample of the quest user. Safety analysis demonstrates that our scheme can attain confidentiality of files and index, trapdoor privacy, trapdoor unlink-ability, and concealing get admission to sample of the quest person. Finally, the use of large simulations, we display that our concept can acquire a lot advanced efficiency in terms of search capability and seek time in comparison with the prevailing proposals.

Index phrases: Cloud computing, searchable encryption, multi-key-word ranked search, blind storage, get admission to pattern.

I. INTRODUCTION

Mobile cloud computing receives rid of the hardware predicament of cell gadgets by using exploring the scalable and virtualized cloud computing storage and resources, and consequently is able to provide a good deal extra and scalable cellular services effective customers. In mobile cloud computing, mobile typically outsource their facts external cloud servers, e.g., icloud, to enjoy a

strong, low-fee and scalable manner for statistics storage and get right of entry to. But, as outsourced facts usually incorporate sensitive privateness facts, such as non-public snap shots, emails, and many others, which could lead to excessive confidentiality and privacy violations, if without efficient protections. It's miles therefore vital to encrypt the touchy records earlier than outsourcing them to the cloud. The statistics encryption, however, could bring about salient difficulties whilst other customers need to

International Journal of Research

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

get entry to involved records with seek, due to of seek difficulties over encrypted information. This essential difficulty in cell cloud computing consequently motivates an in depth frame of studies in the current years on the investigation of searchable encryption approach to acquire efficient searching over outsourced encrypted facts. A set of research works have recently been developed on the topic of multikey-word seek over encrypted facts. Coins et al. symmetric searchable encryption advise scheme which achieves excessive efficiency for big databases with modest scarification on protection guarantees. Cao et al. Endorse a multikey-word search scheme assisting end result ranking through adopting k-nearest friends (knn) technique. Naveed et. al. Endorse a dynamic searchable encryption scheme via blind storage to hide get right of entry to sample of the search user. So one can meet the sensible search necessities, search over encrypted facts have to assist the subsequent three functions. First, the searchable encryption schemes ought to guide multi-key-word seek, and provide the identical user enjoy as looking in Google seek with distinctive key phrases; single-keyword search is a long way from fine by way of only returning very limited and misguided search results. 2d, to quick perceive maximum relevant results, the hunt person could normally opt for cloud servers to kind the again search consequences in a relevance-based totally order ranked by way of the relevance of the quest request to the documents. Similarly, displaying the ranked search to users also can do away with the pointless network traffic with the aid of handiest sending lower back the most applicable results from cloud to look customers. 1/3, as for the search efficiency, because the quantity of the

documents contained in a database could be fantastically large, searchable encryption schemes ought to be efficient to quickly reply to the quest requests with minimum delays.

In contrast to the theoretical benefits, maximum of the existing proposals, however, fail to offer sufficient insights toward the construction of full functioned searchable encryption as described above. As an attempt in the direction of the problem, in this paper, we suggest an efficient multi-keyword ranked search (EMRS) scheme over encrypted cellular cloud facts thru blind garage. Our major contributions can be summarized as follows

We introduce a relevance rating in searchable encryption to obtain multi-key-word ranked search over the encrypted mobile cloud records. Further to that, we construct an efficient index to enhance the hunt efficiency. Through editing the blind garage machine within the EMRS, we resolve the trapdoor unlink-ability hassle and hide access sample of the search user from the cloud server. We give thorough protection analysis to demonstrate that the EMRS can reach a high security stage along with confidentiality of documents and index, trapdoor privacy, trapdoor unlink-ability, and concealing get right of entry to sample of the search user. Furthermore, we put into effect large experiments, which show that the EMRS can acquire superior efficiency inside the phrases of functionality and search efficiency compared with current proposals. The remainder of this paper is prepared as follows.

II. MACHINE MODEL, PROTECTION REQUIREMENTS AND DESIGN INTENTION

A. System version



Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

As shown in Fig. 1, the system version inside the EMRS consists of 3 entities: facts owner, seek customers and cloud server. The statistics owner keeps a huge series of documents D to be outsourced to a cloud server in an encrypted form C. Inside the gadget, the facts proprietor units a keyword dictionary W which carries d keywords. To allow search users to query over the encrypted files, the information owner builds the encrypted index z. Both the encrypted documents C and encrypted index z are stored on the cloud server through blind garage device.

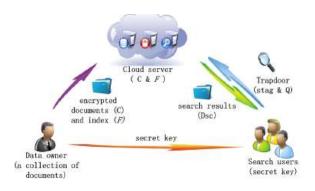


FIGURE 1. System model.

Discern 1. Device model:

When a seek person desires to search over the encrypted documents, she rst receives the name of the game key from the information owner. Then, she chooses a conjunctive keyword set\$ which includes 1 involved keywords computes a trapdoor T along with a keywordrelated token stag and the encrypted question vector Q. Ultimately, the search user sends stag, Q, and an elective variety k to the cloud server to request the maximum ok applicable effects. Upon receiving stag, Q, and okay from the hunt user, the cloud server makes use of the stag to access the index z inside the blind garage and computes the relevance ratings with the

encrypted query vector Q. Then, the cloud server sends returned descriptors (Dsc) of the top-okay files which are maximum applicable to the searched key phrases. The hunt user can use these descriptors to get right of entry to the blind garage device to retrieve the encrypted files. An get admission to manipulate technique, e.g., characteristic-based encryption, can be applied to control the hunt user's decryption functionality.

B. Safety requirements

Inside the EMRS, we keep in mind the cloud server to be curious but honest because of this it executes the mission assigned by means of the data owner and the quest user effectively. But, it's miles curious about the statistics in its storage and the acquired trapdoors to attain extra records. Furthermore, we don't forget the knowing heritage model in the EMRS, which permits the cloud server to recognize more information of the documents such as statistical statistics of the key phrases. Specifically, the EMRS objectives to offer the subsequent 4 security requirements:

Confidentiality of documents and Index: Files and index ought to be encrypted before being outsourced to a cloud server. The cloud server prevented from prying must be into the outsourced files and cannot deduce any institutions among the documents and keywords using the index.

Trapdoor Privacy: For the reason that seek consumer would really like to hold her searches from being exposed to the cloud server, the cloud server need to be averted from understanding the exact keywords contained inside the trapdoor of the seek user.

International Journal of Research

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

Trapdoor Unlinkability: The trapdoors need to no longer be linkable, this means that the trapdoors must be definitely specific even supposing they include the same keywords. In different words, the trapdoors ought to be randomized rather than determined. The cloud server cannot deduce any associations between trapdoors.

Concealing get entry to sample of the hunt consumer: access sample is the series of the searched effects. In the EMRS, the get admissions to sample need to be absolutely hid from the cloud server. Specically, the cloud server cannot analyze the full number of the files stored on it nor the size of the searched record even if the hunt consumer retrieves this document from the cloud server.

C. Layout goal

To allow efcient and privacy-keeping multi-keyword ranked seek over encrypted cell cloud facts through blind storage machine, the EMRS has following layout desires: Multi-key-word Ranked seek: to fulfill the requirements for realistic makes use of and provide higher person enjoy, the EMRS should now not handiest assist multi-key-word seek over encrypted cellular cloud statistics, however additionally acquire relevance-based totally end result ranking.

Search Efficiency: For the reason that variety of the entire documents can be very big in a realistic scenario, the EMRS need to gain sub-linear search with higher search efficiency.

Confidentiality and Privateness Protection: To save you the cloud server from mastering any extra statistics about the files and the index, and to keep seek users' trapdoors secret, the EMRS

must cowl all of the security requirements that we introduced above.

III. PRELIMINARIES

A. RELEVANCE SCORING

searchable symmetric encryption (SSE) In schemes, because of a big range of files, search consequences should be retrieved in an order of the relevancy with the searched keywords. Scoring is the herbal way to weight the relevancy Among many relevance of the documents. techniques, undertake TF-IDF scoring we weighting inside the EMRS

B. COMFY KNN COMPUTATION

We adopt the paintings of Wong et al. Inside the EMRS. Wong et al. Advocate a at ease k-nearest neighbor (knn) scheme which can confidentially encrypt two vectors and compute Euclidean distance of them. First, the name of the game key (S, M1, M2) must be generated. The binary vector S is a splitting indicator to cut up plaintext vector into two random vectors, which can confuse the fee of plaintext vector. And M1 and M2 are used to encrypt the break up vectors. The and correctness security of comfy knn computation scheme can be referred.

C. BLIND STORAGE GADGET

A blind garage machine is built on the cloud server to aid adding, updating and deleting documents and concealing the get right of entry to sample of the search consumer from the cloud server. Inside the blind storage gadget, all files are divided into xed-length blocks. These blocks are listed through a sequence of random integers generated by means of a report-associated seed.

International Journal of Research

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

Within the view of a cloud server, it could simplest see the blocks of encrypted documents uploaded and downloaded. Consequently, the blind storage device leaks little statistics to the cloud server. Specifically, the cloud server does now not realize which blocks are of the equal record, even the full quantity of the documents and the scale of each report. Moreover, all the files and index may be stored within the blind storage device to obtain a searchable encryption scheme.

D. CIPHERTEXT COVERAGE ATTRIBUTE-BASED TOTALLY ENCRYPTION

In ciphertext policy characteristic-primarily based encryption (CP-ABE), ciphertexts are created with an get right of entry to shape (generally an get right of entry to tree) which denes the get right of entry to coverage. A consumer can decrypt the information only if the attributes embedded in his attribute keys fulfill the access coverage inside the ciphertext. In CP-ABE, the encrypter holds the ultimate authority of the get admission to policy.

IV. PROPOSED SCHEME

In this phase, we endorse the distinctive EMRS. Since the encrypted documents and index z are each saved inside the blind storage gadget, we might provide the general creation of the blind storage device. Furthermore, since the EMRS aims to put off the threat of sharing the key this is used to encrypt the documents with all search users and solve the trapdoor unlinkability hassle in Naveed's scheme, we adjust the development of blind storage and leverage ciphertext coverage characteristic-based encryption (CP-ABE) approach inside the EMRS. However, specific

creation of CP-ABE is out of scope of this paper and we handiest provide a simple indication right here. The EMRS includes the subsequent phases: gadget Setup, construction of blind storage, encrypted database setup, Trapdoor era, efficient and at ease seek, and Retrieve files from Blind storage.

A.KEYGEN

The information proprietor generates a key K9 for the function 9 and sends it to the hunt consumer the usage of a at ease channel.

B.CONSTRUCT

This segment takes into a massive collection of files D. D is a list of files (d1; d2; d3 dm) containing m files, where every document has a unique identity denoted as idi. The B.build outputs an array of blocks B, which consists of nb blocks of mb bits every. For file di, it includes size; blocks of mb bits each and each header of those blocks includes the H(idi). Further, the header of the r_{st} block of the report di indicates the dimensions of di. At the beginning, we initialize all blocks in B with all zero.

C. ENCRYPTED DATABASE SETUP

This little change is for the safety issues and does no longer have an effect on the implementation of the blind garage. Further, seeing that each block is encrypted the use of the key generated via the index wide variety, the headers would be extraordinary even if the 2 blocks belong to the equal report or the identical listing.

D. TRAPDOOR GENERATION

To look over the outsourced encrypted records, the hunt person wishes to compute the trapdoor

International Journal of Research

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

such as a keyword-related token stag and encrypted question vector Q

E. GREEN AND SECURE SEARCH

Upon receiving Q, stag, and ok, the cloud server parses the stag to get a fixed of integers in the variety [nb]. Then, the cloud server accesses index z inside the blind storage and retrieves the blocks indexed through the integers to attain the (abei (idijikijix); P) on these blocks. Be aware that, these blocks include the blocks of z[!0] and a few dummy blocks. For each retrieved encrypted relevance vector P, compute the relevance score Scorei for the related file di with the encrypted query vector O finally, after sorting the relevance rankings, the cloud server sends back the descriptors abei (id||K|||x) of the top-ok documents which might be maximum relevant to the searched key phrases. Be aware that, as discussed before, characteristic-primarily based encryption as an access manipulate method may be implemented to manage seek user's decryption functionality.

V. SECURITY EVALUATION

Under the belief provided in segment II, we analyze the safety homes of the EMRS. We give evaluation of the EMRS in phrases of confidentiality of documents and index, trapdoor privateness, trapdoor unlinkability and concealing access sample of the quest user.

A. CONFIDENTIALITY OF FILES AND INDEX

The files are encrypted by way of the traditional symmetric cryptography approach before being outsourced to the cloud server. Without a accurate key, the quest user and cloud server can

not decrypt the documents. As for index confidentiality, the relevance vector for every record is encrypted the usage of the name of the game key M1, M2, and S. And the descriptors of the files are encrypted the use of CP-ABE method. Accordingly, the cloud server simplest use the index z to retrieve the encrypted vectors without understanding any relevance statistics. including the associations extra between the files and the key phrases. And most search user effective the with characteristic keys can decrypt the descriptor abei (idi||Ki||x) to get the record id and the associated symmetric key. For that reason, the condentiality of files and index may be properly covered.

B. TRAPDOOR PRIVACY

While a search user generates her trapdoor inclusive of the keyword-related token stag and encrypted question vector q, she randomly chooses numbers r and t. Then, for the query vector q, the search user extends it as (rq; r; t) and encrypts the query vector using the secret key M1;M2 and S. Consequently, the query vectors may be absolutely specific even if they comprise same key phrases. And we use the comfortable feature nine and 0 to help the quest user compute keyword-associated token stag the use of the secret key K9. Without the name of the game key M1, M2, S and K9, the cloud server can't pry into the trapdoor. And the quest consumer can upload dummy integers to the set Sf to hide what she is clearly attempting to find. Therefore, the keyword records in the trapdoor are definitely concealed from the cloud server inside the EMRS and trapdoor privateness is properly covered.

International Journal of Research

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

C. TRAPDOOR UNLINKABILITY

Trapdoor unlinkability is defined as that the cloud server cannot deduce associations among any two trapdoors. Even though the cloud server cannot decrypt the trapdoors, any association among two trapdoors may additionally cause the leakage of the search person's privateness. We do not forget whether the 2 trapdoors including stag and the encrypted question vector Q can be linked to every other or to the key phrases. Moreover, we might show the EMRS can attain trapdoor unlinkability underneath the understanding Backgroud model.

D. CONCEALING GET ENTRY TO PATTERN OF THE QUEST PERSON

The access sample manners the collection of the searched consequences. In cash's scheme and Cao's scheme, the search consumer directly obtains the related documents from the cloud server, which may additionally monitor the association among the search request and the documents to the cloud server. Inside the EMRS with the aid of enhancing the blind storage machine, get right of entry to pattern is nicely concealed from the cloud server. Because the headers of the blocks are encrypted with the block variety j and every descriptor has a random padding, they would be exclusive even supposing they belong to the identical document. Thus, in view of the cloud server, it may simplest see blocks downloaded and uploaded. And, the cloud server even does now not know the variety of the files stored in its storage and the period of each record, because all of the files are divided into blocks in a random order. Similarly, while a search person requests a file, she will be able to choose more blocks than the document includes

Moreover, she can require blocks of one-of-a-kind files at one time in a random order to completely disguise what she is soliciting for. In the implementation of the blind garage device, there might be a change-off between safety guarantee and performance with the aid of the selection of parameters. We dene the Perr as the opportunity that the facts proprietor aborts the record whilst there are not sufficient unfastened blocks indexed through the integers within the set Sf as mentioned in phase IV. While this abort happens, some illegitimate statistics may be revealed to the cloud server.

VI. OVERALL PERFORMANCE ASSESSMENT

A. FUNCTIONALITY

Considering a massive variety of files and search users in the cloud surroundings, searchable encryption schemes must allow privateness-retaining multi-keyword search and go back files in a order of higher relevance to the hunt request. As proven in desk 3, we compare functionalities among the EMRS, coins's scheme, Cao's scheme and Naveed's scheme.

Cash's scheme helps multi-keyword however can't go back effects in a specic order of the relevance score. Cao's scheme achieves multi-key-word seek and returns documents in a relevance-based totally order. Naveed's scheme implements the blind garage system to guard the get admission to sample but it handiest helps single-keyword search and returns undifferentiated effects. The EMRS can reap multi-keyword search, and relevance sorting at the same time as preserving a high safety guarantees as discussed in segment V.

International Journal of Research

Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

B. COMPUTATION OVERHEAD

We compare the overall performance of the EMRS through simulations and examine the time value with Cao's. We apply a actual dataset country wide technology basis research Awards Abstracts 1990-2003, by randomly deciding on Then. behavior files. we actualinternational experiments on a 2.8Hz-processor. computing system to assess the performance of index production and seek phases. Furthermore, we implement the trapdoor generation on a 1.2Ghz smart telephone. We'd display the simulation experiments of the EMRS, and reveal that the computation overhead of index production and trapdoor technology are almost the equal as compared with that of Cao's. Then we'd examine the execution time of search phase with Cao's and displays that the EMRS achieves better seek efficiency.

1) INDEX PRODUCTION

Index production within the EMRS consists of phases: encrypted relevance vector two computation and the efcient index z production through blind garage. As for the computation of relevance vector, the encrypted proprietor rst desires to compute the relevance score for every key-word in every record the use of the TF \square IDF technique. As shown in Fig. 2, both the scale of the dictionary and the range of files would inuence the time for calculating all the relevance ratings

2) TRAPDOOR ERA

Within the EMRS, trapdoor generation consists of stag and encrypted question vector Q. To compute stag, the search user most effective wishes two efcient operations (nine and 0) to

generate a series of random integers. Compared with time price to compute the encrypted question vector which is linearly increasing with the dimensions of the keyword dictionary, time price for computing stag is negligible. As for computing the encrypted question vector Q search operation in Cao's scheme calls for computing the relevance rankings for all files within the database.

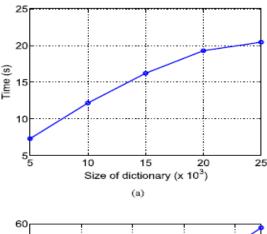
For every file, the cloud server desires to compute the inner made from two (dc2)-measurement vectors two times. Accordingly, the computation complexity for the complete statistics collection is O(md). As we will see, the search time in Cao's scheme linearly increases with the dimensions of the dataset, which is impractical for huge-scale dataset.

Within the EMRS, via adopting the inverted index z which is constructed within the blind garage gadget, we attain a sub-linear computation overhead in comparison with Cao's scheme. Upon receiving stag, the cloud server can use stag to get entry to blind garage and retrieve the encrypted relevance vector on the blocks listed by the stag. Those blocks encompass blocks of documents containing the stag-related keyword and a few dummy blocks.



Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016



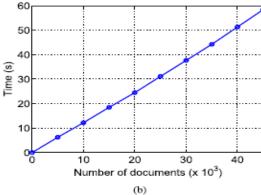


FIGURE 2. Time for calculating relevance score. (a) For the different size of dictionary with the same number of documents, m D 10000. (b) For the different number of documents with the same size of dictionary, jWj D 10000.

Consequently, the EMRS can significantly lower the range of files which might be applicable to the searched key phrases. Then, the cloud server best needs to compute the internal made of (dc2)-measurement vectors for the associated documents instead of computing relevance scores for all files as that in Cao's scheme

C. COMMUNICATION OVERHEAD

While the device is once setup, along with generating encrypted files and index, the communication overhead is particularly

influenced by means of the quest segment. In this section, we'd compare the communication overhead amongst the EMRS, coins's scheme, Cao's scheme and Naveed's scheme [13] whilst looking over the cloud server. Given that most present schemes of SSE handiest consider obtaining a sequence of consequences rather than the related documents, the evaluation right here might now not involve the communication of retrieving the files.

Cao et al. recommend a privateness-retaining multi-keyword search scheme that helps ranked consequences via adopting comfy ok-nearest searchable acquaintances (knn) method in encryption. The concept reap can functionalities such as multi-keyword and ranked results, however requires the computation of relevance scores for all files contained within the database. This operation incurs massive computation overload to the cloud server and is consequently now not appropriate for massivescale datasets. Coins et al. Adopt the inverted index tset, which maps the key-word to the documents containing it, to acquire efficient multi-key-word look for huge-scale datasets. The works is later prolonged with the implementation of real-international datasets. However, ranked results are not supported. Naveed et. al. constructed a blind garage system to reap searchable encryption and cover the access sample of the quest consumer. However, best single-keyword search is supported.

VIII. END

In this paper, we've proposed a multi-keyword ranked seek scheme to permit correct, efficient and cozy seek over encrypted mobile cloud records. Protection evaluation have tested that



Available at https://edupediapublications.org/journals

Volume 03 Issue 18 December 2016

p-ISSN: 2348-6848

e-ISSN: 2348-795X

proposed scheme efficiently obtain can of files index, trapdoor confidentiality and privateness, trapdoor unlinkability, concealing get right of entry to pattern of the search user. Extensive overall performance critiques have shown that the proposed scheme can gain higher efficiency in phrases of the capability and computation overhead compared with current ones. For the destiny paintings, we can inspect on the authentication and get admission to control issues in searchable encryption approach.

REFERENCES

- [1] H. Liang, L. X. Cai, D. Huang, X. Shen, and D. Peng, ``An SMDP-based service model for interdomain resource allocation in mobile cloud networks," IEEE Trans. Veh. Technol., vol. 61, no. 5, pp. 2222 2232, Jun. 2012.
- [2] M. M. E. A. Mahmoud and X. Shen, "A cloud-based scheme for protecting source-location privacy against hotspot-locating attack in wireless sensor networks," IEEE Trans. Parallel Distrib. Syst., vol. 23, no. 10, pp. 1805 1818, Oct. 2012.
 - [3] Q. Shen, X. Liang, X. Shen, X. Lin, and H. Y. Luo, "Exploiting geodistributed clouds for a e-health monitoring system with minimum service delay and privacy preservation," IEEE J. Biomed. Health Inform, vol. 18, no. 2, pp. 430 439, Mar. 2014.
 - [4] H. T. Dinh, C. Lee, D. Niyato, and P. Wang, "A survey of mobile cloud computing: Architecture, applications, and approaches," Wireless Commun. Mobile Comput, vol. 13, no. 18, pp. 1587_1611, Dec. 2013.

- [5] H. Li, Y. Dai, L. Tian, and H. Yang, "Identity-based authentication for cloud computing," in Cloud Computing. Berlin, Germany: Springer-Verlag, 2009, pp. 157 166.
- [6] W. Sun, et al., "Privacy-preserving multi-keyword text search in the cloud supporting similarity-based ranking," in Proc. 8th ACM SIGSAC Symp. Inf., Comput. Commun. Secur., 2013, pp. 71_82.
- [7] B.Wang, S.Yu,W. Lou, andy. T. Hou, "Privacy-preserving multi-keyword fuzzy search over encrypted data in the cloud," in Proc. IEEE INFOCOM, Apr./May 2014, pp. 2112 2120.
- [8] E. Stefanov, C. Papamanthou, and E. Shi, "Practical dynamic searchable encryption with small leakage," in Proc. NDSS, Feb. 2014.
- [9] Y. Yang, H. Li, W. Liu, H. Yang, and M. Wen, "Secure dynamic searchable symmetric encryption with constant document update cost," in Proc. GLOBECOM, Anaheim, CA, USA, 2014.



Mrs. Dr. K. Pavani was born in India in the year of 1978. She received B.Tech degree in the year of 2000 from KITS College, Warangal, M.Tech PG in the year of 2004 from JNTU Hyderabad & Ph.D from JNTU Hyderabad in 2016. She was expert in C



Available at https://edupediapublications.org/journals

p-ISSN: 2348-6848 e-ISSN: 2348-795X Volume 03 Issue 18 December 2016

language, and Data Structures, Security, Data Mining, Adhoc Networks Subjects. She is currently working as an Associate Professor in the CSE Department in Vaagdevi Engineering College, Bollikunta, Warangal and Telengana State, India.

Mail ID: bandaripavani@gmail.com



Mr Y. Bharath was born in India. He is pursuing M.Tech degree in Computer Science & Engineering in CSE Department in Vaagdevi College of Engineering, Bollikunta, Warangal and Telengana State, India.

Mail id: ybb589@gmail.com