

Research Paper

Management

KNOWLEDGE SHARING USING SOCIAL MEDIA TOOLS AMONG POST GRADUATES STUDENTS IN BANGLORE

Ms H.Kavitha

PhD Scholar, Karpagam University, Coimbatore, Tamilnadu, India.

Dr R. Prabhu

Assistant Professor in Business Administration, Government Arts College, Coimbatore, Tamilnadu, India.

ABSTRACT

Big data and the social media are the emerging technologies, which posses long lasting impact on society we live. The social media play pivotal role in communicating and connecting with our family, friend, peers and colleagues. People shares different information in many forms such as text, audio as well as video on the social networking site to shares their feeling. The average global internet user spends two and a half hours daily on social media. This way social

media users produce enormous amount of data which can't be handled with traditional data management techniques. This social media is much important in various fields like Social Sciences, Politics, Commerce, Education, Management and other Behavioral and allied Sciences because analysis of real time social media data provides an insight of public opinion and thinking pattern. The real time data obtained through social media are complex one and posses 3Vs' of Big Data. Hence, in order to put this huge data to work big data analysis materializes as powerful tool. This paper will discuss inter and intra impact of big data and social media in the context of society in emerging and contemporary field of education, economy, advanced technology, environment and safety.

KEYWORDS: big data and social media, big data and social media impact, big data for society, social media for society.

INTRODUCTION

A paradigm shift in the art of study and learning in contemporary society, where students' use of the technology plays a pivotal role in completing their academic tasks. It is understood that several students of this millennia belong to what is tagged "digital age generation". Students often use social mediato interactands hare the knowledge with stakeholders and also access online materials. The use of social mediating overnment entities, students and other stakeholders have grown rapidly in recent time, and this trend which is likely to continue. People from all walks of life uses ocial networking tools to share the knowledge and maintain connections with colleagues, peers, family, class mate and coworkers. Information Technology has turned out to be one of the most versatile tools for human existences as held by Kim. (2009).

Knowledge sharing is one of the most important benefits of the use of social media, it is correct to say that, the use of social media is positively related to knowledge sharing and vice versa. The founder and chief executive of the MIT initiative technology and self, stated that the suitability of the social media sites provides users to interconnect and share the knowledge with one another can harm their interpersonal relationship as held by Turkle, (2011). This research aims at investigating the kind of knowledge sharing tools and practice obtainable among students. It also aims at identifying the gaps in the knowledge and communication is gradually becoming more predominant both in the academic (Keller & Cernerharing practices and suggesting ways to overcome the obstacles faced by a large percentage of the population of the world to day, to upsurge their networks and also to gather information. The trendisgradually finding its way into the commercial world.

LITERATUREREVIEW

According to Foss, et al. (2010) in the period of a knowledge-based economy, knowledge has turned out to the utmost significant asset for an organisation, in which knowledge sharing plays a pivotal part in the entire process of knowledge management Kim, (2009). Michailova and Foss, 2009) held that the main implementers of knowledge sharing are workforces within a firm. Therefore, an understanding of the employees' mind-set for knowledge sharing is very significant. On the individual bases, it has been found in earlier studies that psychosomatic factors such as norms, attitude and trustasheld by (Bock, et al., 2005; Gagne, 2009), have an important impact on knowledge sharing intentand comportment.

 $(Chang \, and \, Lin, 2011) \, carried \, out \, a \, study \, focused \, mainly \, on \, the \, results \, of \, Facebook \, usage \, in \, the \, course \, of foreign student's \, capability \, to part a \, kessocially in their new environments. The students who interrelated with the US students \, on Facebook remained better and so cially adjusted. (Linetal., 2011) held that, out of the foreign students \, surveyed, 46 per cent of the students showed a so cial networking site other than Facebook, which was their main account. (Valenzuela et al., 2009) opined that students are using these media sites for communal involvement and knowledge sharing. The theory is buttressed by Junco, (2012) in his study, where it was found that, students use Facebook for causes other than for information collection and sharing activities.$

Definition of Knowledge Sharing and Social Media

Several researchers have given their own meaning of knowledge sharing, (Hiekkarranta, 2009) Knowledge sharing is the communication which is mutually beneficial. Nevertheless the benefits abound, outweigh the problem of not sharing it. Likewise (Gafoor and Cloete, 2010) affirmed that, withoutknowledgesharing, individuals inanestablishment tends to stay staticing rainstore, poorly joined together, susceptible to reproduction of work and repeated mistakes, was teofresources. (Ma& Yuen, 2011) argued that, boosting information sharing has turned out to be one of the most important researchissuesonline.

Knowledge sharing is thus an important issue in modern organizations (Teng & Song, 2011). Knowledgesharingasheldby(Chou,2010;Hsu,etal2007;Zhou,2008)isasenseofinsecuritytowards exchanging knowledge online, would upshot inadequate participating engagement distributing one's intellectual property authorship and trace the history of shared content design, which might hinderthecontributorsreadinesstoshareinformationwithunfamiliarusersonline.

 $(Hsu\,etal.,2011)\,states\,that\,shared\,content\,may\,decrease\,students\,and\,workers\,dependence\,on\,the\,engaged\,atmosphere\,and\,social\,connection\,between\,friends,\,and\,in\,turn,\,may\,hinder\,the\,growth\,of\,virtual\,communities.\,Validating\,the\,originality\,of\,shared\,contentment\,may\,relieve\,tension\,arising\,from ambiguous input and ownership of academic material ininformation sharing activities (Liuet al.,2013). Yates and Paquette, (2010) held that decision makers found photographic arrangement of data, the most effective format, since a visual medium can be created by layering diverse knowledge sources successively on a common context or or ientation. (Kaplan and Haenlein, 2010) suggested that the World Wide Web's growth gradually into a social media state. Hewand Cheung, (2013) held that the main function of social media in learning is to a synchronous and synchronous.$

According to (Yates et al., 2010) many types of social networking sites exist. Social media sites have been publicly adopted, but organisation are recently realising the potential of these social networking sites. (Hutter et al., 2013) in their research held that, social media is a channel that accelerates communal building among customers. Boyd and Ellison, (2007) define social media sites as web-centred amenity that permits individual sto design apublic profile inside abounded system. O'Reilly, (2005) termed social media as the next generation network facility and commercial models.

The Importance of Social Media and Knowledge Sharing to Organisation

The research is carried out by Jackson et al., (2006) held that employees used the social networking to gain access to an established community of information in an organisation, Yang and Wu, (2008). It plays a vital role in refining individual and organization alout put and competitive advantage. Hald in-Herrgard, (2000) held that, knowledge sharing is a vital asset use in refining quality of work, making resolution, and business culture, efficiency, effectiveness, accuracy of task, which saves time for businesses and individuals. SNS are specific platforms that helpsor ganisation insustaining, creating and growing a professional social network (Levy, 2009). The main features of modern SNS are to support tacit knowledge flows which include enabling voluntary communities (Chattiet al; Parker, 2011). Hsu, 2008: Lim and Chan, 2004; Senge, 2003 Held that, the ability of an organisation to study and exploit the outcome of knowledge more efficiently than its competitors, is regarded as a core proficiency that can assure competitive benefit into day sambiguous business setting.

The importance of social media and knowledge sharing to students

Numbers of research have been conducted to show the increasing use of social media in higher education (Arnoldand Paulus, 2010; Bennettetal., 2012; Cole, 2009; Hurtetal., 2012; Lederer, 2012; Liu, 2010). You Tube, Wikis and Facebook remain the biggest used social media for education. Students used these tools for social commitment, communication and for feedbacks, social media giveschances for betterlearning by inspiring students inbuilding connection with alternative source beyond the lecture hall (Fewlkes and Mccabe, 2012 Yuetal., 2010).

Social media encourages students to working roup and enhance their learning using on line platform, developing students' skills and blog creation (Bennett, 2012). According to Yuen and Majid, (2007) in their study held that, university students in Singapore displayed progressive approach towards to the study held that, university students in Singapore displayed progressive approach towards to the study held that the study held the stud

knowledge sharing and considered it essential for knowledge developments.

Wuetal.,(2009) in their studies argued that trust in knowledge sharing could stem from co-workers or from supervisor. According to (Chow and Chan, 2008) in which they argued that colleagues' approach towards the knowledge sharing and their individual norms toward knowledge impact of their objectives to share knowledge. He opined that students who use Facebook more for data collection and informations haring end higher grades than students who use ditmore for socializing (Junco, 2012). McAfee, (2009) term platforms as a collection of digital content that participant are generally noticeable and persistent improvement of social media tools. Konetes and McKeague, (2011) in revealed that, the use of social media sites especially Facebook and other networks to improve students' beliefs, religious, politics as well as to develop intimate relationships. Notley, (2011) came up with a finding that, social media help universities to influence and enhance learning outcomes. Rainie, et al., (2011) opined that, youth between the ages of 18-29 are the highest user of social networking sites. Al-Rahmi et al., (2013) knowledge sharing among students, teachers and instructorsalike innew circumstance.

According to (Jones and Shao, 2011) in their finding sprefer the moderate use of communication and information technology in their courses. Sham sudin, (2009) attested in his studies to a growing usage of social media sites among students and teen agers in Malaysia. De Belland Chapman, (2006) in their study attested that, adolescents and young adults are the heaviest users of computer and internet and use more of social media than the older ones. Lenhart et al., (2010) social media and mobile internet use by teen sandy oung adults.

MutualTrust

Several researchers have shown in their studies that tacit knowledges haring can take place once there is a mutual trust among individuals this is opined by Panahi et al., (2012). The procedure of gaining trust might not be well-thought-out, as one of the main contributions of social media to tacit knowledges haring, since it is likewise stated by contributors as one of the important problems of using social media. Though, participants stated in Panahietal., (2012) findings that they trust physicians on social media, the same way they would, in physical communication "that they trust only doctors to whom they have been previously acquainted, that are also known in their neighbourhood.

They insisted that, they carry out circumstantial checks, on the internet and on the physicians, when there is need, examine and relate while interacting with them what they have shared previously. If students have mutual trust among themselves, where they can exchange knowledge and ideas. It will go a long way in their academic pursuit, view online library and online e-books which aid them positively in their studies.

Experience Knowledge Sharing Possibilities

According to Faust, (2007) applied knowledge is recognised as one of the key basics of tacit knowledge achievement procedures. Therefore allocation of individual know-how by numerous means such as telling stories, discussion, observation and participation is also considered as one of the central means of sharing tacit knowledge. (Nonaka, 1994) in her study held that, spreading tacit knowledge is not likely without knowledge sharing.

Yi, (2006) opined that the user created the content is accepted as the key feature of social media tools. Nilmanat, (2009) held that to allowindividuals share their knowledge effectively in social media tools; it must supports tory-telling, discussion and experience sharing. Malita and Martin, (2010) in their findings concluded that social networking sites are digital tools for telling stories. Strahovnik and Mecava, (2009) identify web 2.0 tools like, video sites, wikis, blogsocial networking sites ascurrent and proficient tools for exchanging experiences and ideas.

SocialInteraction

Social interaction is a form of verbal discussion, conversation; physical communication and dialogue have been held as the keybene fit of the knowledge sharing in nearly all the studied literature. Murray and Peyre fitte, (2007) held that social interaction is necessary for circulation of tacit knowledge.

Yang and Farn, (2009) affirmed tacit knowledge transfered as a natural procedure of social collaboration. Song, (2009) concluded that, physical communication gave immediate feedback and made multiple cuesavailable to people. Zheng, (2010) termed social media as a web technology tools, which supports social and aggregation of social interaction. Liets ala and Sirkkunen, (2008) said social media sites was a place for social interaction.

Boatengetal, (2010) emphasized on communication and collaborative features of web 2.0 tools. Lia, (2005) confirmed option of tacitk nowledge transferring in the internet discussion and chatsessions. Wahlroos, (2010) detected that social media represented an important potential in enhanced knowledge sharing by providing the live discussions and relationship interaction among individuals.

EducationalCompatibility

The changes intechnological advancement have led modification in general sense of the word. Edens, (2008) opined that, In 70 stechnology influenced on students' learning and a cademic achievement had been discussed. He also stated that, In the early 80s, intermet-based tools are being expanded to support the academic system. According to Keller & Cernerud, (2002) large number of researchers recognised the Computer Supported Combined Learning as a vibrant part of the active learning that enables students to communicate and share the knowledge with each other. Rogers et al., (2009) argument is relevant to students of the 21 st century. Chenand Chen, (2008) argued that emergence of online knowledge; had provided students with new approach, where they gain access to different resources. Educational compatibility talk about student's adoption, and involvements with system

features as well as in several ways students enjoyed learning by system constantly (Tan, 2009).

METHODOLOGY

Data was collected from 160 students who were intensive users of social media. The intensive users were identified based on the hours of usage of social media. The sample size was calculated using the online sample size calculator. The geographical location of the study was Bangalore which was considered as the IThub of India. Purposive sampling technique was used to select the respondents. Participants included students who had the age limit to possess a social media account. Students pursuing various courses were selected to get a holistic picture on knowledge sharing. A questionnaire was used to collect the data. The questionnaire items were anchored using a 5-point Likert scale ranging from the totally disagrees to totally agree. Items for the questionnaire were adapted from Chowand Chan, 2008, Aslametal., 2013, Almana and Zemirli, 2010 and White, (2005). SPSSv.21 was used to analyse the data.

ResearchHypothesis

 $\label{lem:hypothesis1:} \textbf{Mutual trust is positively related with the intension to adapt knowledge sharing usage over social media to olsamong students.}$

 $\label{prop:prop:special} \textbf{Hypothesis 2}: Experiencing possibilities sharing is positively related with the intention of using the social media in knowledge sharing among students.$

 $\label{lem:hypothesis} Hypothesis 3: Social interaction is positively related with the intention of using the social media tools with the knowledges having among students.$

 $\label{prop:prop:matter} \textbf{Hypothesis4:} The education alcompatibility is positively related with the intension of using the social mediak nowledge sharing among students$

DATAANALYSISANDDISCUSSION

Table1:ReliabilityStatistics

| Variables | Cronbach's Alpha | No of Items | |
|---|------------------|-------------|--|
| Mutual Trust | .892 | 5 | |
| Experience Knowledge Sharing Possibilities | .832 | 5 | |
| Social Interactions | .889 | 5 | |
| Educational Compatibility | .802 | 5 | |

(Source:Primarydata)

From the above table, it can be seen that the reliability of the variables in the question naire is above 0.7. According to Hairetah, (2010) all variables in the study surpasses the accepted standard reliability analysis.

Table2:DemographicProfileofRespondents

| | | Frequency | Percentage |
|----------------|----------------------------|-----------|------------|
| Gender | Male | 79 | 49 |
| | Female | 81 | 51 |
| Field of Study | Business and Management | 30 | 19 |
| | Information Technology | 34 | 21 |
| | Engineering Courses | 29 | 18 |
| | Accounting and Finance | 40 | 25 |
| | Others | 27 | 17 |

(Source:Primarydata)

Malerespondentswere 79, while female respondent were 81. The rewas roughly a fair distribution of respondents across gender. Majority of the respondents were from the Accounting and Finance background (25%) followed by the Information Technology (21%).

To analyse the result of the questionnaire, Pearson correlation was carried out, in order to reach a conclusion on the practicality of the figures collected (Yaacob, 2008). Additionally, stepwise regression analysis was conducted; this was to test the relationship between the dependent and

Table 3: Correlations

| | Mutual Trust | ExperienceKn owledgeShari ng Possibilities | Social Interaction | Educational Compatibiliti es | Knowledge Sharing Using the Social Media | |
|---|------------------------|---|-----------------------|------------------------------------|---|--------|
| Mutual Trust | Pearson Correlation | 1 | .519** | .465** | .564** | .549** |
| | Sig. (2-tailed) | | .000 | .000 | .000 | .000 |
| | N | 159 | 159 | 159 | 159 | 159 |
| Experience Knowledge Sharing Possibilities | Pearson Correlation | .519** | 1 | .446** | .515** | .665** |
| | Sig. (2-tailed) | .000 | | .000 | .000 | .000 |
| | N | 159 | 159 | 159 | 159 | 159 |
| Social Interaction | Pearson Correlation | .465** | .446** | 1 | .514** | .515** |
| | Sig. (2-tailed) | .000 | .000 | | .000 | .000 |
| | N | 159 | 159 | 159 | 159 | 159 |
| Educational Compatibility | Pearson Correlation | .564** | .515** | .514** | 1 | .665** |
| | Sig. (2-tailed) | .000 | .000 | .000 | | .000 |
| | N | 159 | 159 | 159 | 159 | 159 |
| Knowledge Sharing Using Social Media | Pearson Correlation | .549** | .665** | .515** | .665** | 1 |
| | Sig. (2-tailed) | .000 | .000 | .000 | .000 | |
| | N | 159 | 159 | 159 | 159 | 159 |

(Source:Primarydata)

From table 3, the result shows that mutual trust is correlated with Knowledge Sharing using the Social Media. (r=.549, n=159, p<.000). This affirms the argument of Al-Rahmietal, (2013) that students using the social media for information sharing or collaborative learning among students, teachers alike in real circumstances.

 $\label{lem:experience} Experience Knowledge Sharing Possibilities is also correlated with Knowledge Sharing Using Social Media. (r=.665, n=159, p<.000). This affirms the argument of (Panahiet al, 2012). Social Interaction is correlated with Knowledge Sharing Using the Social Media. (r=.515, n=159, and provided the provided provided$

 $p<.000). This supports the argument of (Panahi et al, 2012). \ \ \, Educational Compatibility is correlated with Knowledge Sharing Using Social Media (r=.665, n=159, p<.000) and this affirms the argument of Tan, 2009.$

HypothesisTesting

Regression is used to test the hypothesis. The results of hypothesis testing are discussed in the table hypothesis. The results of hypothesis testing are discussed in the table hypothesis and the results of hypothesis are the results of hypothesis and the results of hypothesis are the results of hypothesis and the results of hypothesis are the results of hypothesis and the results of hypothesis are the results of hypothesis and the results of hypothesis are the results of hypothesis and the results of hypothesis are the results of hypothesis are the results of hypothesis and the results of hypothesis are the results of hypothe

The figure as shown above depicts that all the independent variables have a great significance in the dependent variables' knowledge sharing using the social media tools with the r=.776 with a significant value of f=.000. Hair et al, (2010) opined that regression and correlation were help to conclude the relationship between variables. Nevertheless, the regression results show that the independent variables had .592 or 59.1 % impact on dependent variable knowledge sharing using the social media tools, which implicitly have high level of significance on the independent variables to the dependent variables knowledge sharing using the social media tools

Table 4: Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | Change Statistics | | | | |
|-------|-------|----------|----------------------|-------------------------------|--------------------|----------|-----|-----|------------------|
| | | | | | R Square Change | F Change | df1 | df2 | Sig. F Change |
| 1 | .776a | .602 | .592 | .48580 | .602 | 58.355 | 4 | 154 | .000 |

Table 5: Coefficients

| Model | | | | Standardized Coefficients | t | Sig. |
|-------|---|------|------------|------------------------------|-------|------|
| | | В | Std. Error | Beta | | |
| | (Constant) | .248 | .253 | | .978 | .330 |
| 1 | Mutual Trust | .105 | .071 | .098 | 1.479 | .141 |
| | Experience Knowledge Sharing Possibilities | .386 | .065 | .380 | 5.963 | .000 |
| | Social Interaction | .106 | .056 | .119 | 1.906 | .059 |
| | Educational Compatibility | .382 | .073 | .354 | 5.228 | .000 |

a. Dependent Variable: Knowledge Sharing Using Social Media tools (Source: Primary

The figure above is the results of the survey which shows the significance for mutual trust is 0.141, Experience knowledge sharing is .000, and Social interaction is .059 and the Education compatibility is .000. The findings ascertain that, mutual trust have no significant relation with the knowledge sharing using the social media tools as held by Panahi et al, (2012). The process of building trust might not be well-thought-out as one of the major contributions of the social media to the tacit knowledge sharing, social interaction has no significant relationship with the knowledge sharing using the social media and so therefore was not supported and opined by Boateng et al., (2010) where there emphasize on interactivity and communicative aspects of web 2.0 tools.

However, experience sharing possibilities have significant relationship with the knowledge sharing using the social media (Nonaka, 1994) in her study points out that spreading the tacit knowledge is not likely possible without knowledge sharing. Also educational compatibility is positively related with the knowledge sharing using the social media also Consequently related, the result confirms that the experience of knowledge sharing possibilities and educational compatibility are strongly related with knowledge sharing using the social media tools (Tan, 2009) affirm that educational compatibility involves student's adoption, and involvements with system features as well as several ways students enjoy learning by system constantly.

FINDINGS AND SUGGESTIONS

The findings ascertain that two of the independent variables (Experience knowledge sharing possibility and Educational Compatibility) have positive relationship and contribute to knowledge sharing among students using social media tools. But two of the other independent variables (Mutual Trust and Social Interaction) have no significant relationship and does not contribute to knowledge sharing among students using the social media tools. The research depicts the knowledge sharing among the students using the social media tools, increases and encourages students to work in group and enhance their learning using online platform. Students displayed progressive approach towards the knowledge sharing and considered it essential for knowledge developments. It was found that social media provides great opportunities for knowledge encountering through providing the better facilities for broadcasting and faster dissemination of information, keeping people up-to-date, enabling to document and retrieve personal knowledge and experiences, it was also found that the information anarchy is still one of the major issues of knowledge seeking on the social media.

Since there is a high degree of knowledge sharing among students, it is suggested that the students maintain high professionalism on the social media. It is also suggested that the students can create a list of trusted source for knowledge sharing. They must be in a position to block any irrelevant and outdated information. Trust is easily attainable in face-to-face communication with the eye contact, the exchange of non-verbal cues, and the possibility of assessing people's confidence and competence. Hence social media can be used collaboratively for knowledge sharing.

CONCLUSION

The purpose of the study was to examine the potential contributions of social media in facilitating the knowledge sharing among students. The results of the study suggest that social media has sufficient potential to support the knowledge sharing through several mechanisms. The aim of this research is to find how social media tools facilitate knowledge sharing among students. The findings of this research suggest that the social media tools have the prospect to support the knowledge sharing through many aspects. It can provide a platform where students can socialise and discuss academic matters freely: listen, watch and build trusting the relationship with other students, reach out and obtain knowledge from much wider audiences and resources. The need for human and social dimensions is always stronger than any other dimension required for knowledge sharing. Thus, social media can be regarded as a complementary rather than a substitute for traditional mechanisms of knowledge sharing.

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