The Internet world and plagiarism

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ABSTRACT

This paper is an attempt to make people understand the importance of plagiarism. The reason why people copy and its drawbacks. It also describes translation - a type of plagiarism that needs to be studied. How the increasing competition and the stress of work makes an individual to make this crime. The importance of language barrier in plagiarism and need for a common language of the world. The various malpractices used to avoid getting caught in plagiarism. The need for strong rules and laws to avoid the crime of plagiarism. It also has a small survey which describes the lack of education of plagiarism among the people. There is a need to make sure plagiarism a form of electronic crime is reduced perhaps destroyed from its roots. This can only be stopped, from where its starts i.e. school days.

Key words: plagiarism, electronic crime, internet and language barrier.

1. INTRODUCTION

Plagiarism is a periodic problem in the day today life. It is the most rising and persistent problem in academic sector which has been recognized by researchers on a large scale. Stealing someone's work and proclaiming the work as its own or copying others idea without his knowledge and without giving credit for it is happening on regular basis. Students in the universities mostly doing this for the completion of the assignments or thesis or projects due to peer and its lies in the foundation of the overall academic performance. Another reason can be that someone's native language is not English, and they are not comfortable with the writing or they don't know how to compose their statement. So, the writing foreign language is kind of challenge for them. Plagiarism can also happen because of lack of knowledge about rules of writing as well as research and poor understanding of the concept of plagiarism, paraphrasing, time management so they come up with the many different ways to plagiarize [1]. In higher studies the perspective of students to see the plagiarism is changing as digital plagiarism has come into the picture after introducing the internet in the studies [2].

2. INDIA AND PLAGIARISM

Most of the plagiarism crimes are done by students in schools and colleges. If we really want to remove the roots of the dangerous crime named plagiarism we have to educate people regarding plagiarism from their school days.

In the developing country like India where the digital revolution has taken place in last 10 years. The school teachers, college professors are not that good when it comes to digital technology [3]. There is almost a generation gap between students and teacher. So firstly, we need to educate school teachers, college professors about plagiarism. Explain them the importance of it, explain them that plagiarism is a form of crime. Explain them laws against plagiarism. Because when teachers will be technically good at it, automatically they will make their students aware regarding it. To make teachers educate regarding plagiarism it should be included in the education system at school level itself [4] [5].

Although many of the college students across India do know about plagiarism they don't take it seriously because no serious laws are there in India. The developed countries like America, United-kingdom, Germany who have strong laws against plagiarism [6]. There is a need to develop similar laws by all developing countries like India. Some of people copy their friends work or project and claim it to be there owns. Being a friend sometimes we do allow our friends to do it. But we don't think about the seriousness behind it. We all know the famous story of Facebook, its founder Mark Zuckerberg and his team [7] []. Same can happen with you. So be aware make people around you aware about it. Strat a block chain and make India educate about it.

3. EFFECTS OF INTERNET ON PLAGIARISM

Nowadays there have been several problems regarding the plagiarism software's that have been used. It's because of internet every information is available on the internet [8].

So, when it comes to writing an article, research paper, assignments even if the writer doesn't intend it to copy it from any source. But still when we check these articles on various plagiarism checking tools that are available we find a very less uniqueness in the article. Other than this when it comes to mathematics solutions, equations in physics or chemical equations in chemistry and definitions in biology these things we can't say as they are copied these are some true facts [9]. These things must be excluded when it comes to plagiarism checking. So, it's a need to build a plagiarism software that can overcome such kind of problem. It can be done by using various advanced computing technologies such as artificial intelligence, machine learning, big data analytics, data mining etc.[10].

To understand it practically let's understand this example. Here is a small task where a student of standard 9th has been told to write an article about any topic he likes and has told to solve a small mathematical problem. He has been not provided with any kind of internet connection or a book nor any reference material. Whatever he writes in that article is completely his own. This article whatever he writes we will just check it on any of the plagiarism checking tool. And let's find what does it shows from Figure 1.

Figure 1: Plagiarism result of above article

As you can see from Fig.1 he has not intended to copy articles, but the software tells the article to be 50% plagiarized. This is due to the short comes in today's system.

4. STRESS THE REASON FOR PLAGIARISM

The rate at which electronic crimes are increasing in the world is very high. And some people don't even consider electronic crime as a crime. Electronic crime consists of various types of crimes which include hacking and its various types, plagiarism etc. [11]. But when it comes to plagiarism, coping someone's article and calming it to be theirs is a serious crime. But many people around this

world not consider this thing as a crime. The main reason behind this is not strict rules and action taken regarding this crime. There are various laws against plagiarism such as SOPA (Stop online piracy act), PIPA (Property intellectual property act), PIPA (Protect IP act) etc. [12] [13]. Although these laws have not been successful enough to come over the problem.

The cause for behind this activates needs to be studied. Nowadays in this competitive world students, teachers, employees are always demanded for more from their colleges, schools, universities, companies. This creates a lot of pressures on all of them. Stress is the reason which then leads an individual to this crime of plagiarism [14][15]. For some people it may sound strange how can stress lead to crime. Let's take a case study to understand this. Here is an individual from VIT Vellore, India. He is perusing his B-tech degree. Every semester which has a duration of almost four and half months he studies 5 technical subjects. Each technical subject has three components lab, theory, and project. So, every semester he has do 5 projects in almost four and half months. Besides this for every subject he has 3 assignments to do which in total are 15 assignments in a semester. And beyond all of this he faces 2 CAT (Continuous assessment test) exams which are considered for the internal marking and a final exam. It's too much of work in a very short period of four and half months. In a well-established industry it takes almost 4 months to complete a project when a group of people are working on it. So, it's very difficult for a student to complete all this work in small duration of time. So, due to lot of work pressure they tend to copy content from various sources and somehow try to complete their task. So, according to us there is a need to look after this problem because, we think the main reason for plagiarism is stress [16].

5. LANGUAGE BARRIER, TRANSLATION AND PLAGIARISM

India is a country of various languages and cultures. Around 22 major languages are used In India and altogether there are 1652 languages used across India. Its not only India where you find diversity in languages but also when it comes to international level there are almost 6909 languages spoken. Various articles have been written in various languages.

Translation of an article is a process where we convert an article from one language to other. There is a big question "Is translation also a form of plagiarism?" Yes, it's a form of plagiarism [17]. Many people do it and think nothing is wrong in it. They copy some article from a source and just translate it in other language and claim it to be their own. There have been developments in the translation of languages automatically. Google translator is an example of it. It has been developed using various machine

learning, artificial intelligence and human computer interaction techniques. Various people use this method to make their work done [18]. But there is a need to use the same system and implement in plagiarism. So, that the malpractice of translation of an article can be stopped. To make you understand here is a small case study we have done. We have taken a small article in Marathi language which describes a great Maratha leader Shivaji Maharaj from sourcehttps://maharashtratimes.indiatimes.com/ editorial/article/shivaji-maharaj/articleshow/ 1047876.cms. We checked article with plagiarism tool (Small CEO tool). We obtained the following result. (Fig.2).

The same article we translated it to English using google translator. We checked article with plagiarism tool (Small SEO tool). We obtained the following result. The result obtained was surprising.

Figure 2: Original article (Top) Plagiarism result of original article (Bottom)

As you can see through above case study the systems are very weak in detecting the plagiarism when it comes to translation. Rather than saying weak they are not capable of making out plagiarism in translation. So, it's a great need to develop a system of plagiarism which deals with the problem of translation. One of the solution which we think can be implemented is using google translators in the system.
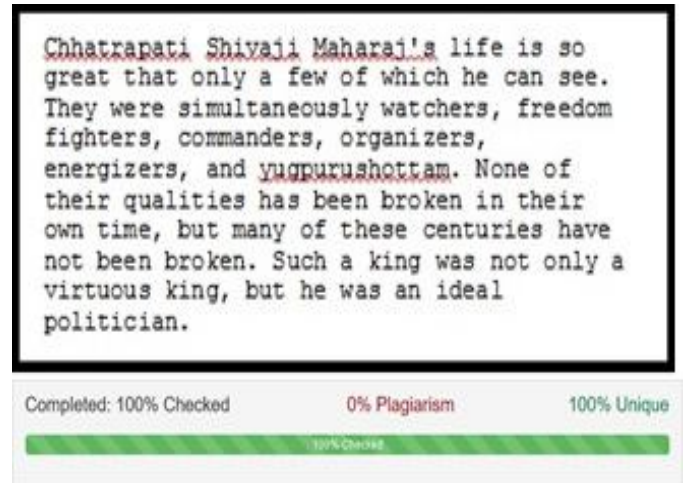

Figure 3: Translated article (Google article) (Top); Plagiarism result of translated article. (Bottom)

One of the other main relation when it comes to plagiarism and language is the language barrier [19][20]. As we mentioned, there is a large diversity across world in terms of language. It becomes difficult to an individual to write in a language he/she is not good at. So, to avoid the problems of this language barrier they try to copy from various sources. Let's try to understand with an example. As we all know English is a very widely used language across the world. Most of the nations in the world follow English. As Indians say Hindi to be the language of their country. English is said to be the language of the world [21]. So, when it comes to writing an article at international level most of the people choose English. 90% of the universities in the world use English in the education system [22]. So, when a student from Maharashtra (a small state in India) who has completed his primary and secondary education in Marathi language. When he suddenly moves to higher secondary education and faces English, it becomes hard for him/her, when he/she has been told to do some assignments, projects in English [23]. To, avoid less marks and to be in the completion they tend to choose the path of coping [24]. Sometimes we do feel diversity is good for nature, we do enjoy diversity in cultures but what do we think? There should not be diversity regarding language. When there will be a common language in world, be it any language not only English such problems will never come. And it will not lead people to commit crime.

6. MALPRACTICES USED TO AVOID PLAGIARISM

Various illegal methods are used to avoid the plagiarism. Many of the people copy the content from various sources and just try to reframe it, they do it by using similar words or changing the article from direct to indirect speech or from indirect to direct speech or paraphrasing it [25]. Doing such kind of malpractice, they try not to get caught

in plagiarism. This is the method various students use to get complete their assignments without plagiarism. There are various tools developed which are used to remove plagiarism [26] [27]. These tools are being used extensively to remove plagiarism. Let's do a case study on this. Here is a small piece of article which has been taken from a website named http://iasscore.in/national-issues/issues-between- india-and-bangladesh . Now when it was checked with a plagiarism tool (Small SEO tool). The following results are obtained.(Fig 4).

Figure 4: Original article (Top); Plagiarism result of original article

Figure 5: Modified article (spinbot)(top); Plagiarism result (bottom)

These days such kind of tools are used on a large scale to remove plagiarized. Although these kinds of tricks are not caught by the current systems but it's a problem that needs to be solved. Various school and college students use these tricks to do their assignments and projects.

7. SURVEY

We did a small survey among 400 people of various categories which include school students, college students, teachers etc. And following are the results we got.(Figure. 6a)

Most of the college students, college professors were aware of plagiarism. They knew what plagiarism is. But most of the school students, school teachers were not aware regarding plagiarism. Some of the reasons behind these stats we have mentioned above.

Almost 66% face the problem of language barrier and it tends them to copy from various sources. (Figure 6b) Even we got a feedback that this is due to the diversity of languages in India as well as in the world and English should be the main language included in the education system.

Most of the college students, college professors were aware of plagiarism. They knew what plagiarism is. But even after knowing it. They think that plagiarism is not a crime. The main reason behind this is no well-defined laws and no strict rules. The need for laws and rules are mentioned in Figure 6c.

Most of the people do think there should be serious laws build against plagiarism. So that this crime can be put to an end.

This stat revealed the main reason behind the lack of education regarding plagiarism. Many students don't even know about plagiarism because they are not informed about it.(Figure 6d) The person who must do it is their teachers. They should take a special session once during secondary education to make students understand, what plagiarism is.(Figure 6e)

Again, this was a strange response we got and needs to study that most of the people think translating an article from one language to other language and claiming it to be there's article is not plagiarism.(Figure 6f)
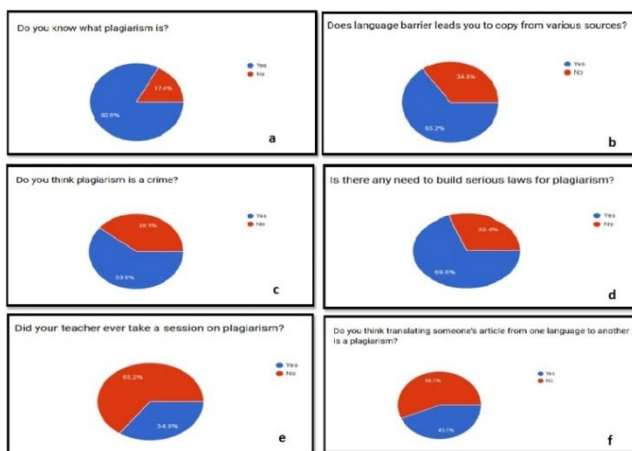

Figure 6: Survey Results

8. CONCLUSION

From the survey we can see that some students don't even know what plagiarism is. **And it is very important to aware students and takes measures about plagiarism because in the schooling itself they are designing themselves and making future graduates**. So it will be very useful for them in the future environment while studying in university education or in working environment. We came to know about the various reasons why people choose the way of copying content (like stress, academic pressure, lack of time, peer pressure, language barrier, competition in work as well as competition among students for grades etc.). There should be serious laws regarding plagiarism to avoid this problem.

Also from the survey we can see that how translation of any language in English creates a huge difference in detecting plagiarism. It's actually copying but software doesn't recognise the plagiarism. To avoid such problems there should be such softwares which can detect the plagiarism even after translating the content from any other language to English.

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