Relationship between computers and truth

A technical future towards social justice

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Abstract

While establishing relationship between computer and truth we find that the very reason, possible for which computer was created, was to reveal truth and facilitating to bring social justice in the society. Computers proved to be very powerful tool in the fight for justice in the society but the people who took stand for justice paid big price sometimes in terms of loss of life or in terms of loss of pride. In this paper, I discuss the possibility of bringing social justice using proved methods that reveal truth and conspiracies. Although the work will be in conformance with the constitutional provision yet retaliation is expected. Bringing global war for justice at local level will produce better results than before and will ensure that the remote areas are not left behind. Whistleblowers will get more secure platform to speak up to not only exposing global issues but also local issues.

Key Words: Computers, technology, corruption, facilitators of social justice

INTRODUCTION

Computer and Truth are two terms which are very closely related to each other. As it is said necessity is the mother of all inventions, Computers are no different. The very existence of computer came into picture when the lightening fast pattern identification and calculation was needed to decipher hidden messages. Truth has been the primary factor to uplift computational or technological development. The greatest of the secrets in the history of mankind are safeguarded by machines and computers have revealed truth at very anxious moment when it was most needed. The most important factor where computers have been pillars to safeguard truth is discussed below. It will strengthen the relation of computers and truth. Present study also explores the way in which we can use the technology for social justice at local level.
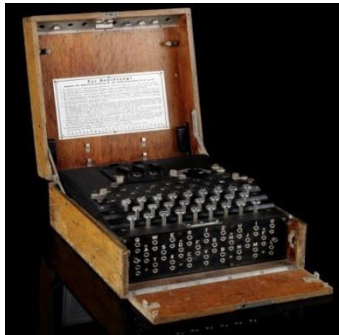
1. ALAN TURING

Alan Turing was a British mathematician and cryptographer. During Second World War, he received a mysterious job in intelligence. He along with a team was employed to break the Enigma code. Enigma was a device then used to send encrypted message about military strategy and plans by Nazi's. This was the time where it all started. The world was about to see a revolution in the field of machinery. Humans were on the verge of creating a machine which could think i.e., computer.

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1.1 ENIGMA

It is an encryption device used during world war. Historians believe ENIGMA was the base of most of the confidential communication at the time of the Second World War. Its beauty was in its method of encrypting the message. After encryption there were 159 million of million possible combinations of the encrypted text, which was believed to be impossible to crack.

1.2 PROTOTYPE OF THE BOMBE

The only necessity of the time was to break the unbreakable Enigma code. Allen Turing very well understood the fact that a machine could be competed with a machine only. He created a prototype of Bombe (which is also the prototype of modern day computers) which swiftly checked maximum number of possible combinations in unbelievingly less time and broke the so called unbreakable ENIGMA code.

- Historians also say that the prototype of computer reduced the war by almost 2 years by breaking the code.
- The computer was created for the very purpose of revealing the truth.

2. JULIAN ASSANGE

Julian Assange is a Australian programmer who came into controversy twice for one particular reason. The reason was revealing the truth in front of the world about the conspiracies and corruption. At a very tender age of 17 year in the year 1990 he hacked the US military which held very sensitive data and details about civilians being killed by government programs of western countries in the middle-eastern countries. He wanted to reveal the information in front of the public but due to unfortunate turn of events, he was arrested and everything that he knew was buried within him for the time.

15 years later, on 4th October 2006, Julian Assange founded wikileaks. Wikileaks was an open platform for whistleblowers to contribute in revealing truth. Sir Oscar wild, once said that Give the man a mask and he will tell you the truth. Wikileaks was inspired by the same idea. In wikileaks, people could reveal truth, corruption and conspiracy without revealing their own identity to anyone not even to the creator of wikileaks.

In his early 20's, Julian Assange created a tool called *Rubber hose Deniable Encryption System*. This tool encrypted the piece of transmitted information by sending millions of similar fake data through fake sources which made it almost impossible to identify the original source where the data is coming from. Wikileaks was based on same idea.

Corruption from various countries were revealed within 5 years of the start of wikileaks but Julian Assange took his work to a different level when wikileaks published 251,876 secret documents from the US diplomatic cables which came from a whistle blower Chealse Manning in 2010. The files revealed included Iraq and Afghanistan logs which were similar to the one he saw in his teen age. The war could have been stopped earlier but his words were not valued at that point of time. Even today some countries are facing war like situations, for example, in the Middle East.

2.1 IRAQ WAR LOGS

- It included estimated death of civilians in the war . There were 66,081 civilian death out of 109,000 recorded death.
- Other document explained a project named "IRAQ BODY COUNT PROJECT". This project counted another 15,000 death which brings the total of about 150,000 deaths. Amongst this 150,000 deaths about 80% were civilians.

2.2 AFGANISTAN WAR DAIRIES

It too gives records of death of thousands of civilians and provides detailed report of involvement of government agencies of Pakistan & Iran in the Taliban attacks. Wikileaks has revealed more such conspiracies compared to what has been reported by entire media around the world.

3. EDWARD SNOWDEN

Edward Snowden is a computer professional. He leaked sensitive documents of US national security using his computer skills and immense courage. He brought the truth before people around the world. He strengthened the relation between computer and truth eradicating all barriers. He is the world's most wanted man and is fighting against the world's most powerful government just to reveal truth in front of people. People had conflicting opinions about him and his work. He believes that even governments are not working as per their respective constitutional provisions.

He worked for various organisation including CIA, DIA, NSA etc. He was a System Administrator for CIA, counter Intelligence trainer at DIA, working for dell assigned as a contractor for National Security Agency and at last he worked with Brooz Allen Hamilton. His work made him a pillar of the relation between computers and truth.

On May 20 2013 he leaked Sensitive NSA (National Security Agency) documents to journalists Glen Greenwald and Laura Poitras. He believed that journalists can better present the data in front of the people and he wanted the citizens of United States should have a chance to decide whether they want such policy which are constitutionally not acceptable and which violate human rights every day. He had been planning the disclose since a very long time but took the leap of faith from the Obama and his administration who gave the people faith that the policies of previous government will be abolished for a better future but ironically later the unlawful work was amplified and went beyond its predecessors. Even after various attempts of Edward Snowden for putting the issue in front of people who were in position to take decision couldn't brought any fortune and lastly decided to reveal the documents to the public through media.

3.1 HIS DISCLOSURES

He leaked several documents but the agencies themselves couldn't find out the exact number of documents. Estimated documents were equivalent to a treasure of dark secrets which the government lost: 15,000 approx Australian Intelligence Files, at least 58,000 British Intelligence Files, around 50,000 to 2,00,000 NSA documents, and some also claim that possibly he has more than a million documents which he acquired working for different organisation

3.2 SECRET COURT ORDERS

UNITED STATES

FOREIGN INTELLIGENCE SURVEILLANCE COURT

WASHINGTON, D.C.

IN RE APPLICATION OF THE
FEDERAL BUREAU OF INVESTIGATION
FOR AN ORDER REQUIRING THE   Docket Number: BR
PRODUCTION OF TANGIBLE THINGS
FROM VERIZON BUSINESS NETWORK SERVICES,
INC. ON BEHALF OF MCI COMMUNICATION   1 3 - 8 0
SERVICES, INC. D/B/A VERIZON
BUSINESS SERVICES.

SECONDARY ORDER

This Court having found that the Application of the Federal Bureau of

Investigation (FBI) for an Order requiring the production of tangible things from

Verizon Business Network Services, Inc. on behalf of MCI Communication Services

Inc., d/b/a Verizon Business Services (individually and collectively "Verizon")

satisfies the requirements of 50 U.S.C. § 1861,

IT IS HEREBY ORDERED that, the Custodian of Records shall produce to the

National Security Agency (NSA) upon service of this Order, and continue production

Derived from: Pleadings in the above-captioned docket
Declassify on: 12 April 2038

The above shown court order was sent to a leading telecom company VERIZON .This was Mr. Snowdens very first disclosure. This court order proved that the security agencies were collecting the phone activity of millions of Americans on the direction of the government agencies i.e NSA (National Security Agency).

3.3 PRISM (Electronic data mining)

When PRISM was first revealed it stated that the government had direct access to the servers of technological giants such as Google, Facebook, Yahoo, Apple, Amazon etc. Later it was discovered that it is a bit different, the NSA could demand any information from the companies and the companies were compelled to give the information by law.

3.4 TEMPORA

It is a secret program run by GCHQ, a British spying agency which closely works with the NSA(National Security Agency) of the United States and tap the fibre optic cables of the countries throughout the world Various companies collaborate with GCHQ . Names of those companies were later revealed as Verizon Business, British Telecommunications, Vodafone Cable, Global Crossing, Level 3, Viatel and Interoute.

3.5 XKEYSCORE

It is a analytical tool that allows for collection of almost anything done on the Internet. In the leaked documents it has been described as the "widest reaching "system to search things through the Internet.

In Edward Snowden own words "I, sitting at my desk could wiretap anyone from you or your accountant to the federal judge or the president, if I had the personal E-mail". He later explained that E-mail content can be easily searched, Location of cell phones can be tracked very easily and data were collected from yahoo and Google data centre worldwide from hundreds of accounts.

3.6 RADICALIZER

NSA agents very frequently spied on their love interest. This practice they called as 'LOVEINT'. They tracked online sexual activity of people on random and termed it as 'Radicalizer' in order to discredit them.

3.7 SURVILLIANCE ON COMPANIES AND WORLD LEADERS

- NSA's operation targeted Brazil's largest oil company 'Petrobras'.
- Surveillance over charities such as UNICEF & Me decins du Monde
- Spied over leaders of Israel, Brazil, France, China and other 122 world leaders which later created tension within the allies.

3.8 SIGNINT STRATEGY (2012-2016)

This program worked on the expansion of the surveillance activities. Their goal has been to increase domination on the global network and to acquire capabilities to spy on anyone, everyone and anywhere. It had a six functionalities:
- Collect all data
- Process all data
- Exploit all people
- Partner all people
- Sniff it all

- Know all information

The Agencies took Information of companies like Siemens (German), Even if the knowledge or information had nothing to do with security.

The agencies were allotted $52 billion for the year 2013 for the spying projects which they misused and went beyond its primary motive to exploit people with the involvement of the government.

4. FUTURE OF SOCIAL JUSTICE PLATFORM FOR A COMMON MAN USING RUBBERHOSE ENCRYPTION

After knowing about these people and their work, few questions arise. Is it only the responsibility of this handful of individual to contribute for the welfare of the society? The fight for justice is a never ending process and needs a dominant contribution from the technologically able people.

We are well aware of the works of Martin Luther king who got inspired by the ideals of Mahatma Gandhi (Ahimsa, Non -violence) and revolutionised his nation. Similarly we have Julian Assange and his works which can be used as a vital force for social change in our society.

With so much of great and effective ideas already existing we don't need to do anything completely new. Just the way to implement the previously developed ideas will be a bit different this time. Julian Assange started his work at the global level but still there a large part of society was left out that couldn't feel impact of his great work. The ideas of Julian Assange, if implemented locally at different corruption prone areas, will have a higher impact and more people will get exposure. The people belonging to deprived class of families will too have awareness about the platform which technical people create for them to seek justice and promote justice in our society.

Rural areas and small cities around the globe are connected with internet. A platform with rubber hose encryption to know the problems can be very effective because in majority of the cases, the actual problem is not revealed due to the fear of powerful people and sometimes because of superstition. The people of these corruption prone areas will too get a place to raise their voice. After knowing the problem there can be various steps to eradicate them and awareness for people can be created. Lastly the corrupt can be exposed.

5. CONCLUSION

Truth is revealed at different occasions and whenever it is needed. But people who do so pay heavy price in form of humiliation, torture and even death in some situations. But the work of those people needs support and appreciation which can bring more whistleblowers and extraordinary thinker to come up and make a difference in the society with the help of IT. Every conspiracy can be revealed if people update themselves with technology and fill their heart with enough courage like the handful of cases discussed in present study. Allen Turing received a very special treatment by the British government after breaking the unbreakable enigma code. He faced trials for being a homosexual and after the effect of intense

medication found it better to suicide. His work was destroyed and kept secret for more than 50 years.

By using Information Technology, one can bring big difference in the society. The socially underprivileged areas too can get powerful support to bring social justice. Large number of people will be benefited by the work. The world deserves to know the truth that affects our life. We are in no position to give up our privacy and freedom out of fear. It is better to die once rather than dying every day by giving up our basic human rights. Social Justice can be achieved with these methods and exploitation can be eradicated using Computer.

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