Artificial Intelligence- In The Witness Box

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ARTICLE INFO	ABSTRACT
	The times are gone when letters were delivered through birds, today we can just drop a voicemail. The artificial intelligence has evolved over the past century so much that now literally fingerprints unlock your safes. But have you all wondered if it was necessary? Could it bring enhanced dangers of fingerprint copying ? the debate of technology as boon or bane is a century old debate now. allow thy author to take you on a humble tour of experiments and pilot surveys to get an insight on some data. Putting forth suggestions and satiating your soul through an upturn of hypothetical situations, whilst mentioning the realities and current provisions. Also digging an insight into the international scenario, artificial intelligence brings its own uses and harms, humbly laid for your benign consideration by the author. Also the paper is a humble attempt towards an interdisciplinary study, with amalgamation of psychology and laws. Without much ado, I hereby present before you the humble paper. **Keywords:** artificial intelligence, interdisciplinary study, pilot survey, science, law, medical negligence, robotics, computers, international scenario

INTRODUCTION

As the humans evolved and progressed over the ages , so did the technology. starting with a tribute to the intelligence of human mind, to create artificial intelligence in computers and other forms like the robotics which can easily accomplish the most arduous of tasks in today's world. Where a human voice can be tapped, operations of human relied on computer device monitoring and iris scanning facilities are at our beck and service, the question arises, has artificial intelligence[1] has the power to over power human intelligence?

Before predicting derivations, lets firstly appreciate the zones where artificial intelligence has shown commendable capability. Ranging from medical science to astronautics, its proven that in present times it has become indispensible.

From era where telephones and landlines were a miracle, we have reached to times where recording voices over mobiles is a casual process. Where article 51-A(h) of constitution, empowers us to develop a scientific temper, as a fundamental duty[2], the achievements of ISRO in the recent decades have proven the mettle of artificial intelligence.

Before reaching over decisions allow the humble author to take you on ride to some more capabilities, artificial intelligence posses today.

- World war 3
- Large scale mass killings/ (with recent being the covid , which with all due respect to each nation, has raised questions to intelligence of those who can create artificial intelligence
- Robots[3] leading to dominance of humans in cases of humanoid creation
- Crimes which could not have been committed and are hardly covered by IPC, are common now.

Allow your author to put you in some hypothetical situations, to help understand my humble viewpoint.
1) A term coined in mid 1950s by McCarthy
2) Part 4-a of the constitution
3) created in the early 1950s by George C. Devol, an inventor from Louisville
4) origin of the term "hacker", relates to extremely skilled individuals practiced hardcore programming in FORTRAN and other older languages
5) **Cryonics uses temperatures below −130 °C, called cryopreservation**, in an attempt to preserve enough brain information to permit the future revival of the cryopreserved person.
6) **Also termed as SETI(search for extra terrestrial intelligence**
7) During IVF , mature eggs are collected (retrieved) from ovaries and fertilized by sperm in a lab.
8) a method used to save women's ability to get pregnant in the future. Eggs harvested from your ovaries are frozen unfertilized and stored for later use
9) Stalking.--(1) **Any man who-- (i) follows a woman and contacts, or attempts to contact such woman to foster personal interaction repeatedly despite a clear indication of disinterest by such woman**; or.

HYPOTHTICAL SITUATIONS-

Situation 1- a person receives access to voice recordings of someone and has the capability of modulating vice through artificial intelligence software. He sends threatening calls to a number of people in person x's voice or commits any other crime. Who is to be blamed in such situation? The negligent man, who was careless enough to not protect his voice recordings aptly? Artificial intelligence? Security personnel? Or artificial intelligence again for not being able to track the offender in time?

Situation 2- A person x gets access to the nations missiles and other nuclear weapons, through hacking and misdirects them to kill masses. Who is liable, the hacking software maker? Hacker[4]? Medical science for testing missiles and makng nuclear weapons or artificial intelligence again, to not being efficient enough to protect the hacking

Situation 3- A doctor in all good will and committing no medical experiment, conducts an operation, relying on science based computer monitoring. Due to 1% error in the computer system, the operation gets failed and patient dies. Who is responsible?

Situation 4- A private hospital , relying largely on the skills of doctors, who have genuine experience in dealing with equipments, brings new technogicial equipments, launched recently, the doctor commits an error handling the new gadget of which he has no prior training, resulting in harming of a patient. Who is responsible? Hospital for not providing adequate training? Medical board, for not setting up enough norms before allowing hospitals and doctors to deal with new invention or just the negligent doctor?

Situation 4 – nation x has artificial intelligence which it does not provide to some nation y owing to differences and broken treaties. Sanctions and votes are put forth against nation x by all other nations. Nation

x develops the artificial intelligence to counter the one already sold by it to nations, to maintain its supremacy and force other nations to remove the sanctions and again fall into trap of multilateral treaties.

Situation 5- person A commits a crime in nation x, and seeks refuge into another nation z, where through medical procedures he changes his appearance and facial structure, making it difficult to detect him.is the security of nation x and y liable for letting that person evade? Is the medical practitioner to be blamed for no prior enquiry or is the medical procedure guilty?

Though there seems to be no typical yes/ no answer to these situations, it is humbly requested to contemplate further before taking sides

ELECTRONICS MEDIA – SOURCE OF INFORMATION DISSEMINATION OR IDEAS FOR CRIMINALS?

An undeniable effect of social media, crimes series and movies, has been the effect on the mindset of people. Not just giving the gullible and criminals ideas for perpetrating crime, it has effected the psyche of masses at large as well.
To prove thyself, I hereby present before your witness, the experiments conducted.but before proceeding towards them, allow thyselves to delve in some mind jogging through visualisation of international scenarios. The author most humbly submits that the twist of laws, of just putting disclaimers before crime movies enough ?
Is the procedure elucidated, a hint for caution, or hint for planning a crime?
Who is to be blamed in the end? Movies? Society? Parental indiscretion? Even more importantly whats the solution? Banning everything or censoring it more?

THE INTERNATION SCENARIO:

Where on one we are scared from crime series to threats of world war, artificial intelligence has brought us some hopes for the future which definitely cannot be overlooked:
- Freezing dead[5] in hope of revival at later stage
- Probability of life on other planets
- Possibility of communication with aliens[6]
- In-vitro fertization[7] and egg freezing methods[8] for women
- Detecting paranormal activities and sounds and recording them
- Possibility of genetic mutation in plants and animals(hopefully in humans too in future, though it may have its own pros and cons)

EXPERIMENT 1

Two groups of participants , all between the age of 20-30 were taken in batches of 20 people each. The control group was shown a rom com and other was shown a scientific sci-fi movie. After the end of movie, both groups were asked to jot down the key points of movie as remembered. The controlled group remembered the emotions whereas the other group seemed to be in more imaginative zone and lured towards the technology and if given chance to try their hands on it,without second thought, aping the movies shown
(these experiments have been conducted in collaboration with ms Vinita joshi, M.A. Psychology, and due caution has been taken to not let other independent variables interefere with the findings and results of the experiment)
(it is worth mentionable here that not only the subjects were duly informed of the experiment procedure but also given the surety of anonymity as to names and confidential information gathered)
However it is pertinent to point out the drawbacks of this experiment here only-
➢ Different age groups have not been compared inthis experiment owing to paucity of funds and lack of time(for which the author meekly apologises).
➢ Strata had been chosen through random sampling, ousting patients with previous psychological deseases, however, it is submitted that a comparison with that group could not be undertaken without previous consent of proper authorities.
➢ Teenagers have not been included in the study.
➢ A comparison, of rural and urban population has not been conducted yet , which hopefully thy author shall cover in the next research paper

LEGISLATIONS AND PROVISIONS-

It would be unfair to not include the reference of legislative enactments, which have definitely put fetters to the misuse of artificial intelligence

➢ Provisions of 354-D IPC[8]
➢ Atomic energy act ,1962
➢ Cybercrime prevention act, 2012
➢ Besides, on the international scale, ICGP (international conference on peace and development as well as the articles of UN charter are thoughtfully formulated to prevent misuse of artificial intelligence by any nation.

But the point remains, are the legislations enough?

Allow thy humble author to take you through to second experiment to help shed more light on the scenario.

EXPERIMENT 2

2 groups of 20 participants each were taken again. Between the age group of 20-30 years. Both were given a 5 page long article. the control group had to rewrite it with pen and paper whereas the other group had to type the same.
The latter group reported more exhaustion but better satisfaction of replication of data where the control group reported lesser exhaustion but no elation.

(it is submitted that the findings have only been used for the purpose of research and the same had been assured to all the participants.)
Thy author did not hurry to draw conclusions here as well, as the above mentioned drawbacks have hindered the present experiment as well.
To help understand the ironical twist amalgam of both, a pilot survey was conducted as well.
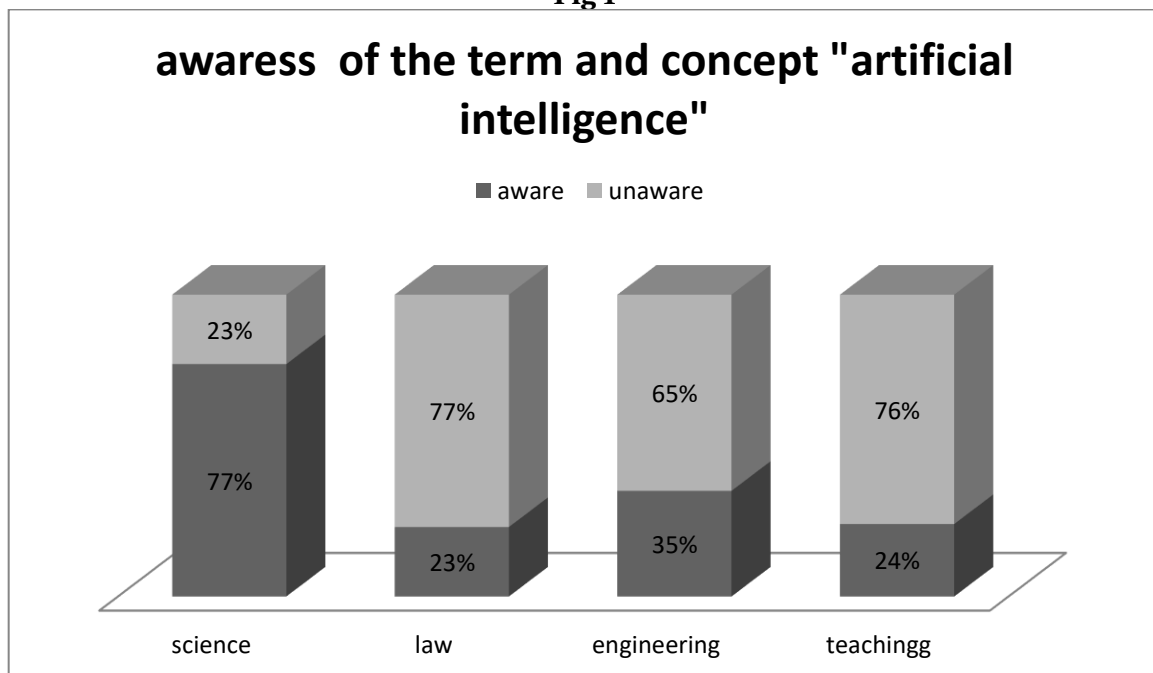
PILOT SURVEY-

People belonging to backgroups of science, law, teaching, engineering were divided into group of 25 each
(all participants belonging to tricity and ranging between 25-30 years of age)
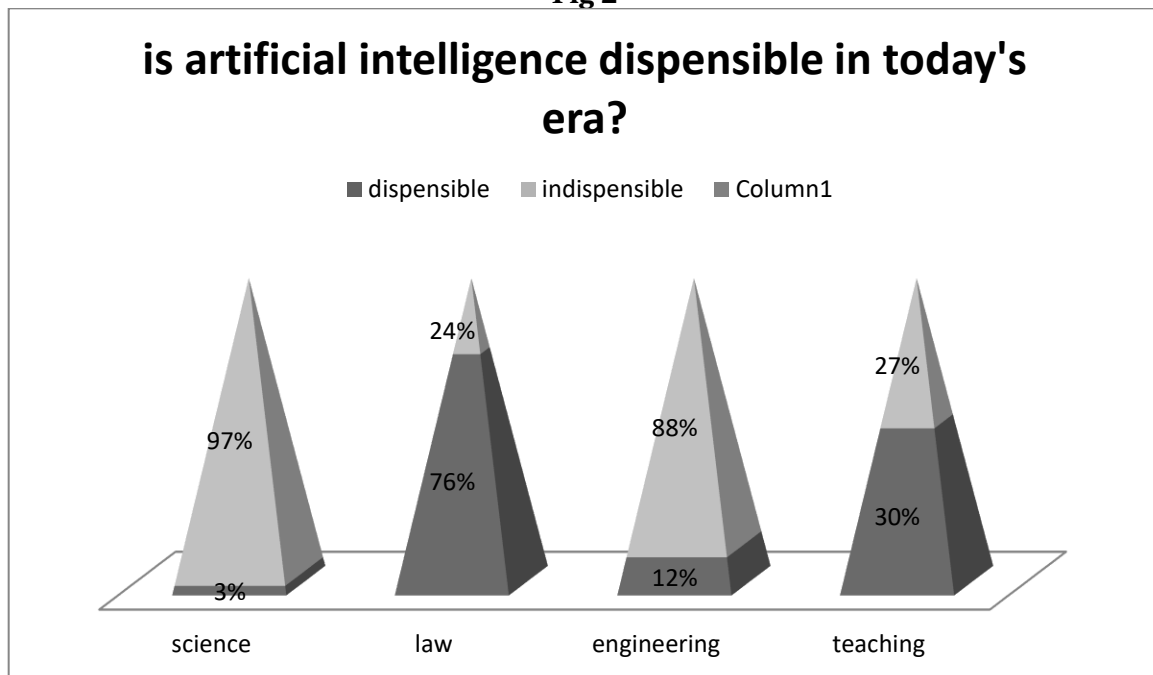The information and statistics derived have been mentioned forthwith.
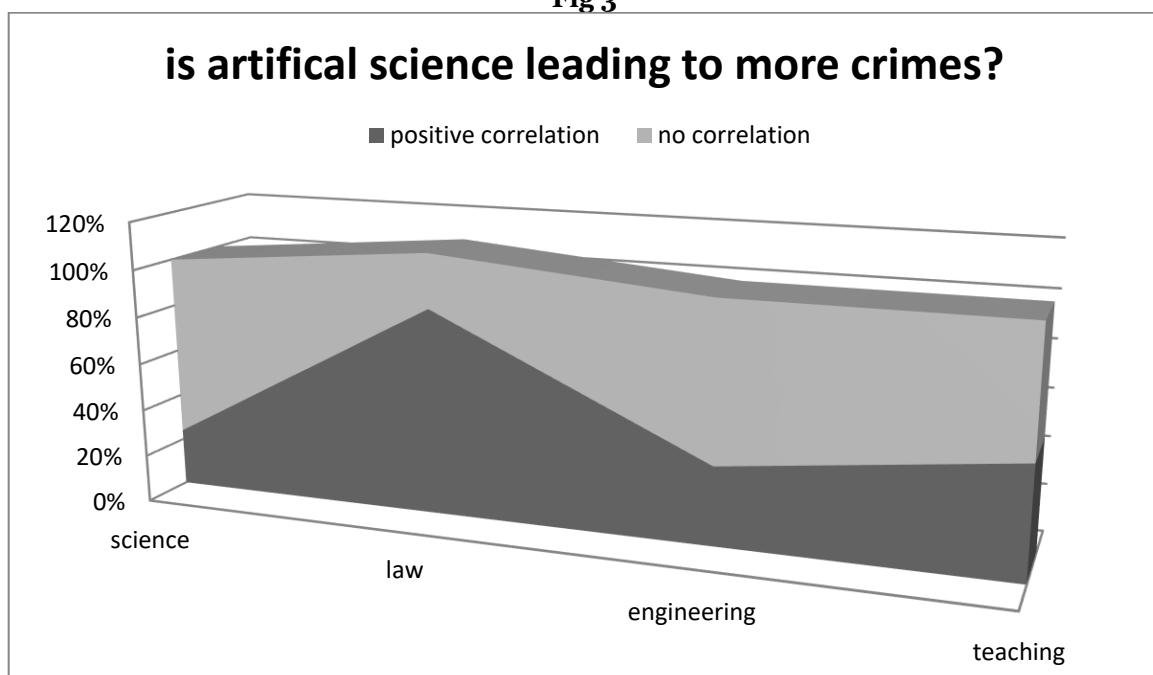(a sample survey has been attatched at the end of the paper)

Fig 1

Awareness of the term and concept of "artificial intelligence"

(After familiarilizing all with the cncept and meaning , the survey was taken ahead)

Fig 2

is artificial intelligence dispensible in today's era?

■ dispensible   ■ indispensible   ■ Column1

science: 97%, 3%
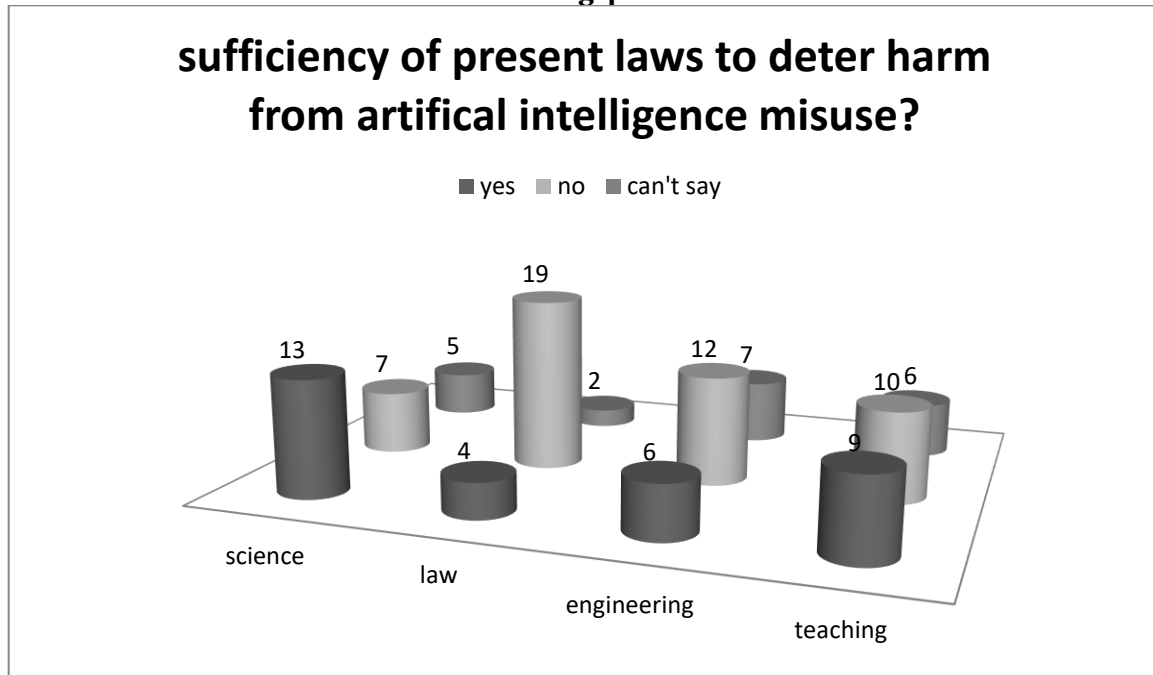law: 24%, 76%
engineering: 88%, 12%
teaching: 27%, 30%

Perspective on dispensability of artificial intelligence
While the survey was shedding light on interesting facts and statistics, the author with utmost humility requests to consider the geophrical limitations under which the pilot survey has been conducted
(only urban literate population could be surveyed owing to paucity of time)
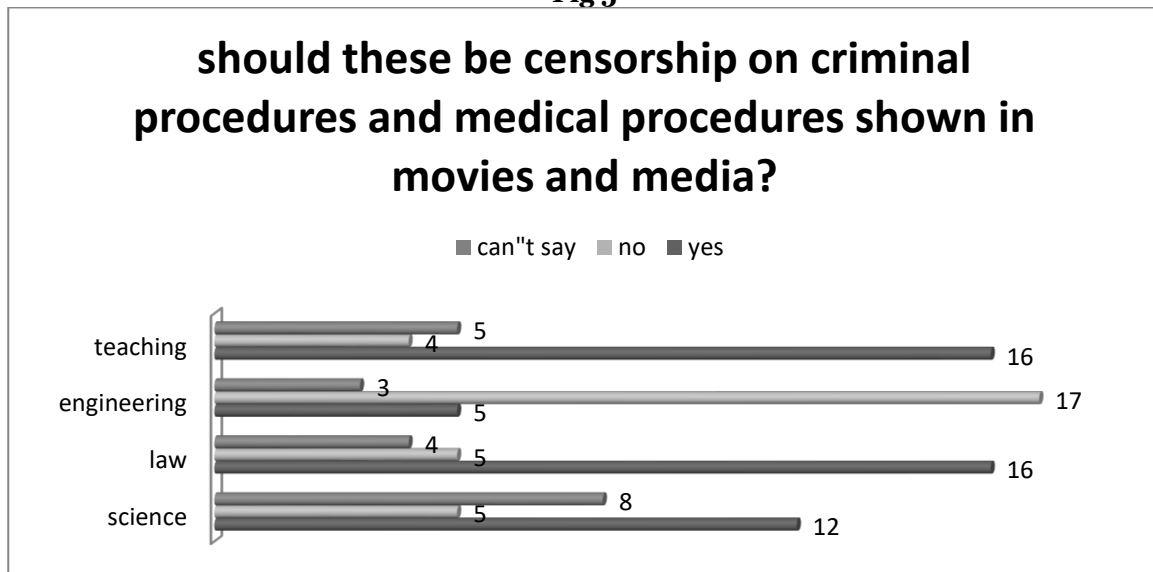
Fig 3

is artifical science leading to more crimes?

■ positive correlation   ■ no correlation

science, law, engineering, teaching

Corelation of crime and artificial intelligence

Fig 4

sufficiency of present laws to deter harm from artifical intelligence misuse?

■ yes ■ no ■ can't say

Satisfaction with current law of people of different back grounds

Fig 5

should these be censorship on criminal procedures and medical procedures shown in movies and media?

■ can"t say ■ no ■ yes

Social mindset on procedures elucidated in social media

THE PREDICAMENT OF ARTIFICIAL INTELLIGENCE:
Artificial intelligence is created by humans, but works against humans too what could be the possible cause?
➢ Misuse due to ignorance and illiteracy
➢ Criminal elements of society
➢ Cleverly designed technology with loopholes
➢ Mad race of nations to supercede others in fear or for dominance

Iit is humbly submitted tat as no one person or nation is to be blamed , so in case of reasons. One reason. While the essays we get get reminded of the science as a boon or bane, artificial intelligence is ultimately not the criminal, though it might be a weapon at times

PUTTING FORTH SUGGESTIONS:

Artificial intelligence cannot be done without but the author humbly puts forth some suggestions to curb misuse-
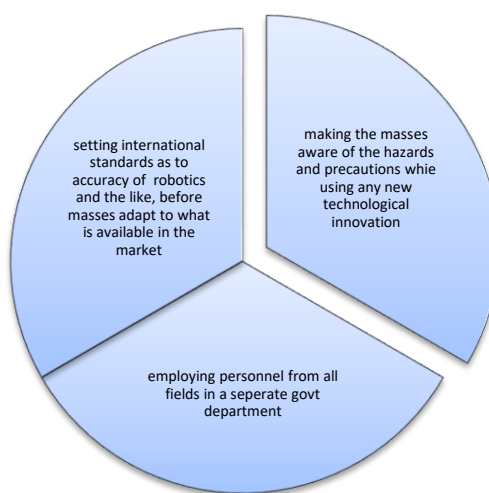
- No new technological development should be launched in market until its loopholes can be countered with another one
- There should be international standards for all nations for testing and experiments
- The cyber cells of police should be equipped better
- Stringent penal laws should be added to deter hackers and other misusers of artificial intelligence
- Cases of medical negligence should be probed into and a special procedure should be laid down for the same
- Governments should employ and train personnel in artificial intelligence, hacking, tracking and tracing to catch the criminals red handed

PLAN OF ACTION:

It is rightly said that only suggestions and opinions serve little purpose unless there are proper ways to implement the guidelines and plans:
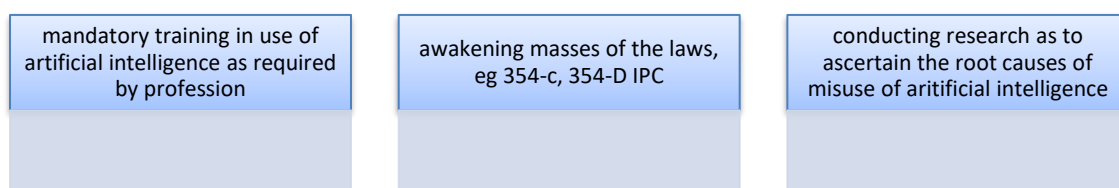Te author hereby humbly lays before you a proposed action plan for better handling of artificial intelligence hazards-

Fig 6

Proposed POA 1

Fig 7

Proposed POA 2

HUMBLE REVIEW OF THE RESEARCH PAPERS MENTIONED BY THY AUTHOR:

Whilst thy author takes the liberty to say that most of the research papers, (mentioned at the end), have dealt with the uses of artificial intelligence, specially in the medical field. Some have even covered the cases of medical negligence. With all due respect to all the researchers thy author humbly submits that the field of artificial intelligence is vast. Thy author being a lawyer herself, is more inclined towards the criminal aspectand hazards that artificial intelligence can create. Still it is pertinent that the topic be looked at not just from one view point but encompass interdisciplinary study.

DRAWING HUMBLE CONCLUSIONS:

While artificial intelligence can prolong the life of humans (in form of automated ventilators), make life easier, through invention of robots, alexas and echo dot systems, the hazards that it may pose in future, cannot be overlooked, as they say "prevention is better than cure" so thy author recommends that Mindfulness, Awareness , Security and Systemization (MASS) are the keys to successful and beneficial use of

artificial intelligence systems. With this thy author humbly concludes the paper and seeks forgiveness for any errors and differences of opinions.

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