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n) challenges assocrated with the
advent of AI.
i) AI arms race among global powers.
ii) AI, seplacing humans in sol maskets.  iii) Bras and discomination by AI.
iv) Psivate enterprises pereloping and owning At sesources.
V) Springition xiles which has AI
v) Security rises wought is AI vi) Ethical distemma and AI's publisher.
vii) Potential existential threats associated with AI
The state of the s
5) Approach towards an optimal use of
AI and xisk mitigation.
i) scrutinizing data accessed by Al trools.
ii) Golobal co-operation, enacting codes and Paris.
ii) Disecting sesouses towards A I and A I seseach
6) conclusion
Could have worked on better worf
selection
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Essay The history of human sace stants witness to the fact, that every innovation has brought both opportunities and charlenges with it easly inventions to the xevolutionaxu ements in information technology, humans have expessenced both positive and negative impacts such innovations in their lives. in modern esa, is the "Astificial Intoligence" Astificial intelligence " with has brought un imaginable comforts humans; at the same time; it humans, to think about grave situation; if a stificial Frontinues to grave uninocked. AI has a huge past to play in incoming pestosm. ance of our health, legal, and oducation systems; improvement of security paradigm; integration of AI in in governce; automation of existing systems, one expects astificial intelligence to provide path breaking xucossos in different ralks of life; at the same time one cannot ignose the challeges that have omesgood with the lowent of AI: global powers getting involved in AI based asm xale AI's him and docson ination; Polivate ontesposses owning major astificial intelligence assets those some of major concorns. So, bastifing ! intelligence, with its alvent has human beigs with unimperpable comforts and

benefits; however, it has also confronted human sace with the most sosions of challenges; some which have potonbial to become existential threats. Now is the time that, governments and a tobal organizations should take steps to boness its fauits and mitigate its harmful impact. AI itself is a tool, however, it has potential to make life pither hell or heaven; depending on how humans usert; as once montroned by Elmansk. Accommodate and merge within It will be best ever or worst ever thing for humanity. " ( Elon much) If one wants to hasness benefits of AI, while staying immune to its hazards , one must know the concept of AI. The tesm "AI" as "Astifrical Intelligene" was first used in 250s. Machine learning (ML), can be considered as the discipline, from which AI is originated. ML oleals with developing mechanisms which mable computers to differenciate among different patterns; evalution of mi over the years has resulted in energence of astificial intelligence. Astificial intelligence, seless to ability of a Abrupt placement of definition

computes as solot + controlled by computer to perform tasks that are naturally pestosmed by human beings. At point of time ristifical intelligence has matched just a few aspects of human intelligence. AI has evalued of thre, that evolution has diversified the nature and capability of different tools of AI, being used. For instance, Testla's AI used in auto driving mode is different than many chattots being used; the cosnesstone in AI maniement, however, is the myentron or "Enot Gift" to chat Gift, has the ability to create content: writing emails, essay, etc. It can also solve complex mathematical problems; there days it intelligence is being tested, by making it to attempt vasious examinations of different Profesional sources. The highlight of chat-Get, is clasing a generative type which means it keeps learning som is mistakes. The generative AI has sparked the debate about the future expects prospects of AI. The psime four of the deba is to maximize the binefits while minimizing the bisks associated with AI

The debate, wether AI has brought with mose oppostunities challenges; can only be solled convolsing both the good and aspects of astificial intelligence. is better to start with positive aspects so automation of the system is of such examples In many walks of life, many instances of automated systems can be found - Sixi and Aloxa, introduced by tachgot companies have automated many house-hold tasks, similarly customes suppost systems, computer a ded manufacturing axe so the minifestations of automation of oursting system. of generative astificial may expect its integration in mass exansit system, which would sexult in a knowny or room bus that all so completely sortable by AI and will not sequise any human put the sould soult in more afficient safe and faster saprol trensport system. In near future many outing systems are expensed to be automated for more efficiency Precise it



As AI brings to the table, un-peralled standards of efficiency, the integration of astificial intelligence for motherment of public. In order integrate AI, in governance a frame-work is sequired to define the extent up to which it may play its sale. Blas, like G. 7 and Eusopean union have already strated to confomplate on this aspect of AI. If, in near future, such integration is achieved AI will fast track docoron making, implementation and execution by many falds. AI can postosm data obganization and data analysis, thus, making the job casier for danian making. Routine decision making can also be assigned topic sentence thust be aligned in better and fasting the worndwriting one Similarly, another, sector in which AI has a top solo to play is health sectors one can already observe what AI is eapable of doing when incorporated in health sector. PATH AI is one such tools it is an AI bot solely, developed for health sector;

it employs algorythms in diagnosis; making dragnostic pores more officient These days, AI is being used seading X-say seposts, so and diagnosties, and one facilities. The scope 0+ sector can be increased improvement in hauth sectors. appointments, and maintainance of using AI; can be automated may involve AI setting school surgeries, appointments; notifying patients and doctors about the appoint -mont us susgesy. AI mose people in less times, thus mgred with the topic sentence and making it to popularm Another sector of porme impostance is the oclustion United Nations and cultural organization has emphasized on integration AI in education. AI is also performing tasks soluted to in some countsies of unsold, bu

alloady conducted many stage tequirements by hum vays and lending to deide oducation sector at arun-precedented As AI is producing unimaginable sesults in every walk of life, its contribution in ensuring the safety of the citizen of state cannot be ignored countries like china, USA, etc. have already incorporated it in their susveillance system security camera these days one seconize d owing to their intelligence, these camers can differentiate among persons on the of face socianition. Through this innovation countries are able to keep

an eye on elements that one cannot ignose the contribution AI in feoeping people with maintaining safety play impostant parts in is incorporated in legal system. be used in multiple have to provide speady sintre to publics Algorythms can be assigned classification and judges - making PROLITING EXPOSION decision. While shedding Throx posation of astitical Shahrd Hussam Kambayo, at Singapose University of has mentionally his " Innovation in AI : scope in just

croogle, Facebook etc., ase emplying this along with chatbots which pessonalise search according to usess. Some companies abe using "NIP" in their customes suppost sections and in daily "Alona" can be seen as a manifestation

"Natural Landquage Poccessing", So, shooposation of AI in customes suppost section, and sections as depistments invalved in data gathesing will fast I sail many operations. Thus localting in fastes and more efficient provision of Although AI has brought many positive changes in human life, one cannot ignore the sisks that it has brought with its advent one such sisk or challenge is, involvement of countries in "hi AsmiRace" Big powers like china, USA and Russia are treating AI as a new yar front, and trying to leap from others in attempt to take this technology to a new level fox defence. "AI Asms Race" includes competition in automation of traditional weapons, and development of advanced tool of cybes was. The major conver that axism with situation, is that these rountsies are pushing harder to attain more advanced tools, while ignosing all othical and legal grounds, that prohibit advancement of a tochnology to such an extent that it may become obtainental for humanity So, absence of any sules and laws in "AI Asm Ray" is one such challenge

must be adjessed as soon as possible. Similarly, AI has posed the challenge of job displacement to many professionals. Astificial intelligence, has the potential and ability to leasn from its post experience; this ability makes it an eligible candidate for many jobs. Easlier, it was thought AI would seplace jobs only select to semi-skilled field, but the advent of "Grenerative Astificial Intelligence" has completely changed this scenarios. This modern type of AI can not only white cohesent text and emails, but also salve complex problems. I wing to these capability of PAT has visted millions of employees to lose there jobs, as a stificial intelligence has the ability to solve complex problems along with performing clastical work. A sepost by 16 world Economic Forum" suggests that by 2027, AI WILL sesult in 14 million joblosses - the new gobs eseated, by that time by AI are expected to be asound 69 million, It will believe 83 million of their Jobs so escating an overall deficit of 14 million Jobs. This Job displacement will lead to further unemployment, which is already

Day: uniontselled in many countries. Another mayor concern is bros and disistimination; that manifests in some of the actions performed by AI chatbots. As, these chatbots learn from all the data, that is available to them such data may be present on internet chatbots coming in contact with undata on internet leads them to book bras and discommation many such case have been seposted in which AI chat-bots have shown discomination one the basis of gendes, sace, and seligion. One such example is - Amazon's hising algosythm, this algorithm was found to be brased against women landidates. As majority of applicants were note, so it leasn't that to be a male was eligibility exitesion, and it sejected the applications of female candidates. So, discrimination and bras displayed by AI are serious concernes and meed to be so solved Among many concerns that human face is facing, one cannot igr the fact that must of the advanced AI tools are eleveloped, maintained and owned by private companies. This situation

indicates towards the fact "AI is a power concentrated in a few hands". This situation is concerning as none of the companies age consubsed soveteign entities, however, thee obganizations are far more influential than many convoisin countries. So, even an international convention is established for the control of negative impacts of AI, beinging these companies on th as is big issue. Furthernose, governments been caught off-quased in policy making on AI, so these companies have established their our sules, sesulting in availability of the tool to many people who may be deemed un-authorized to use such exactools one such example is that one does not need any posmit of licenia to use this technology whether he be a scientist of a tersosist. If one has money to Pay for the technology, he mais use it for whatever purpose he wants. thus making it a major concern As to use Al one does not sequise any promit, are may just pay the subscription, or by buy uch machine to west; cosminals and anti-social intities are also using AI to where their tasgets.

So, many AI tools in a psactical situation of decision making only consider, logic while ignoring others; human on the other hand, employ both logic and othical considerations in decision moting. This situation can better be explained by considering an example. Breaching one's privacly is not considered othical in human society, and such out is considered immoral, while an AI bot by breathing the's privily is just fulfilling the task at hand mosality doe not good for chat bots. So, such situation may lead many socral and cultival problems. Lostly, many exposts claim that astiticial intelligence is a potential existential threat to humanity many scholars are of the opmon that, just like nukes, AI may once day gain the ability to saze mankind from the susface of the planet scientists have deviced the revalution of AI in different Phases. As of non AI is in its "Limited memoxy AI" phase in the phas AI tools ase able to least and adapt on the basis of past experience. Screntis, however asque that the most advanced stage int

Date: in this evalution is yet to assive: self. Avake AI. This stage of AI is expected to suspass human intelligence. Expests expect self realization of AI at this stage. After self scalization AI compages as broggest sival that mankind has ever faced. This sivally may end at the extremination of one of the two sivals. Indoed, AI may become an existential threat to human Nevestheless, AI is delivering many positives along equally bad to maximize its benefits, and minimize its advesse effect. In this segare many offosts are required one such effort is to sent screetinize data that tools used in decision making. Such elata should be made free from brases hate content, design tosy and controversial information. Adopting this strategy AI will made Pres from bias and discomination. A committee should be formed; which may segulate this scruting after consultation with experts belonging from different walks of life This will load to air unbrasent AI

involved in decision making. As AI is a phenomenon; effects of which are felt alsoss the globe; to togulate it; a co-operation at global level is essential organizations like G1-7 and European union Parliament have already taken a lead, in their bid to harmonize AI with human values. UN should look to frame a global treaty; make all of its members to sign this trenty. The main goals of the treaty should be to segulate the use of it: blocking access to command entities; Providing bry tech organization righ of representation so that those companies become sesponsible. enacting global statutes to make suce that its benefits use enhanced rand hasinful impacts are nullified. This il sesult in AI contributing towards the betterment of public Along with adopting above mentioned stategres, states must focus towards on disperting sesouses toward AI and AI socoasch. A country like Pakutan, especially, can benefit from AI up to a great length. By invoting on A

Pakistan can good thousands of AI expests contributing in different walks of life. Similarly investing a research will provide mechanisms to segulate and control A I which will allow humans to hiv an odge over AI Similar which increase the net human employer fate, Basically better AI, and well main -tained AI will lead to desall improvement in one's living standard, which is only possibly by provision of sercuscos to AI and AI workh After taking in consideration; different aspects of AI, one realizes that AI is one of the most momentus and historic innovations over the voxed has witnessed. Back in 20th century AI was jus a desixe , or a wish, but with the turn of contury AI began to make people scalize its oxistence. These days AI is playing an impostant sole in holping out man, in different disciplines. All major disciplines like education, health, security, and governance are using AI to improve their officiency, and many positive contain

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investment of laws; regulation of AI; it may become a	
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