

Artificial Intelligence And The Existential Decline Of The Cognitive Design Of The Human Species

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Narrative

This paper concentrates on the current competition between man and artificial intelligence (AI) that has morphed into the tribal incantation of Darwin's natural selection, the survival of the fittest. AI supporters have advanced AI's dominance over man's intellect and judgment. Humanity must enhance the educators' intellectual leadership role to counter this preponderance view of AI's dominance. The academic measure of the educators must identify and define a curriculum that generates a cohesive collective of human productivity and learned spectrum. Even more importantly, to protect the existential intellectual breadth of future generations.

Keywords: algorithm, artificial intelligence (AI), apps, authority, bots, coder, cognitive design, cognitive linguistics, cognitive science, computer, educator, existential, human species, intellectual, natural selection, survival of the fittest, technologist, transformational-generative grammar

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I. Introduction

Identify the Anathema of Artificial Intelligence

Cerebral Mapping

Consciousness

The introduction of nomadic wireless apparatuses (e.g., laptops, GPS, smartphones) plugged with apps supported by the Internet and generative solutions constructed by individuals (coders) and corporations (authorities) secures the consciousness of the masses will become a reservoir of nothingness. Furthermore, the masses' consciousness is becoming the billboard for articulating the commercial purposes of these apps, as well as acceptance of generative elucidations without consideration of predetermined learned behavior or originality provided by a book, paper, and pencil education. The relegation to apps and reproductive tasks known as generative solutions by the masses is the beginning of the descent of the cognitive design of the human species, the decimation of the existential person, becoming not "I think; therefore, I am," but "I do not think; therefore, I do not exist." A paradigm shift, a scientific revolution[1], or natural selection, survival of the fittest. Humankind is becoming subservient to AI, the computer's mind, and, for that matter, to the minority of the human population, the coders, and authorities.

AI's Role in Society

The definitive objective of artificial intelligence (AI) is to harbor the encyclopedia of information compiled and collected from all of humanity's learned knowledge, printed and digitally cataloged to enhance society's overall productivity. The workday computer's AI is decisive enough for everyday people to write memos, pay bills, do accounting, investigate topics, or email or text for business and personal use. Nevertheless, the necessity for AI's electromagnetic speed of light retrieval and accuracy recreates a more significant role for observational researchers, drawing upon the data rooted in AI's algorithmic surface and deep hierarchical language structures to solve unsolvable problems. The consequence of extracting information from the knowledge resources retained within the computer's AI enables the cognitively established researcher[2] to identify and define solutions applicable to research on agricultural, air, and water quality, global warming, medicine, political equality, and population dynamics.

Limitation

However, AI, solely controlled by a coder (an individual) or authority (a corporation), the minority, cannot yet determine the ultimate fate of society's majority in world affairs without governance and oversight. As one conveyor of AI, Elon Musk stated at the 2023 UK conference on AI[3], insight into AI is necessary before oversight. In other words, before governments responsible for protecting the best interests of their citizens regulate AI, they need to comprehend and understand AI's inner workings and intentions, as it will affect not only a few but the majority of the people.

Symbiosis Between Man and the AI of the Computer ... "For the things we have to learn before we can do, we can learn by doing them" [4]

Humanity and AI have been counterparts in the development of symbiosis. Over the last several hundred years, man has assembled the machine, the computer, to imitate the architecture of humankind's cognitive linguistics for accuracy and speed. Before this time, the Aristotelian domination of human intellect was fostered by those holding power until the 1600s and 1700s, the time when the transformation of the emerging scientific revolution of Descartes and Galileo cumulated into the advancement of Gottfried Leibniz's binary system, calculating machine, and calculus. Isaac Newton formulated classical mechanics, optics, and calculus during the same century.

Since the end of the 20th century, humankind, the authorities of AI, and the computer have had symbiosis. However, in the early 21st century, elitist technologists, known as computer authorities, gradually spawned a crusade, an illusion of the computer being better suited than man. Hence, the introduction of the cognitive conflict of natural selection[5], the survival of the fittest between man and the computer's AI. Because those few among the body of humanity who wield the influence of technology believe, as men before them, that they are best suited to lead society without administration.

The fittest species can survive without artificiality, i.e., electricity or end-user activation. Man is organic and nomadic, has an inherent need to survive, and is unceasingly curious. With man's aid, the computer[6] is nomadic and has a purpose of survival, and its curiosity exists only because of man's ingenuity. Therefore, between humankind and the computer, man is the most appropriate species when considering natural selection and survival of the fittest. Because of an overpopulated world, AI is necessary to assist governments and businesses in meeting society's demands better. However, those who own AI technology do not share the inevitability of the moral conviction that all men are created equal. These few controllers of AI technology use their propaganda communication channels implanted in their apps and reproductive tasks to convey, convince, and mesmerize the public. Hence, there is a gradual decimation of the existential cognitive design of the human species.

Natural Selection and Survival of the Fittest

Why not just end the human race and let AI of the computer be the subsequent species to govern the earth? Because AI, the result of the biochemical soup of the historic collective of the human species, cannot survive or be infused with increased knowledge or creativity without man. Furthermore, AI does not have consciousness, only the subconscious of its creators, coders, and authorities.

The influence of AI as a decider factor who prevails and does not survive in society reintroduces the dimensions of Charles Darwin's concept of natural selection and survival of the fittest and Darwin's cousin Francis Galton's use of Social Darwinism to rank humankind's intelligence through eugenics, which most academicians consider as scientific racism.

The organic backstop of survival of the fittest and man's development of consciousness[7] are intertwined, and complexity emerges as the whole is greater than the sum of its parts.

AI does not have consciousness as man has during his waking hours and understanding of his surroundings; it possesses a subconscious, the purposeful mental replication of its creators, coders, and authority. The AI's subconscious symbolizes the coder and authority's intellectual limitation and singularity, rooted in the linguistic surface and deep structure of their collective hierarchical cognitive mapping. The AI response to a question or problem the coder and authority cannot answer is: "How can I know Master if you do not?" [8]

Neil Theise writes in "Notes On Complexity" about human connectedness and consciousness,

This paucity of language around consciousness has not prevented the most extravagant explosion in human history of scientific studies on the phenomenon.[9]

Electricity and Survival

For the AI of the computer to subsist, it will need human engineering to insert electrical inputs and outputs for electricity, designers, and material specialists to create the interior and exterior of the computer, and cognitive scientists to regulate the AI's intelligence quotient. Furthermore, humankind's inventiveness will be critical to propelling the flow of information and the force of dynamism for AI. The ingenuity of man to build, deliver, and invent the components of electricity, language, and material elements to shape the computer and AI are necessary to sustain their synthetic existence and evolution. The magnitude of electricity and materials necessary to build, operate, and conserve the functioning of the various AI portals is astounding. It will undoubtedly diminish the quality of life for the present and future-day human species.

Fred Pearce wrote in 2018 the following projection:

Data centers are the factories of the digital age. These mostly windowless, featureless boxes are scattered across the globe – from Las Vegas to Bengaluru (Bangalore), and Des Moines to Reykjavik. They run the planet's digital services. Their construction alone costs around \$20 billion a year worldwide.

The biggest, covering a million square feet or more, consumes as much power as a city of a million people. In total, they eat up more than 2 percent of the world's electricity and emit roughly as much CO₂ as the airline industry. And with global data traffic more than doubling every four years, they are growing fast. (“Energy Hogs: Can World's Huge Data Centers Be Made More Efficient?”)[10]

The coders and authorities of the computer and its AI must ensure its electricity and use of rare mineral sources[11] continue to enable their survival and evolution. Hence, the AI of computers will require continuous 24-hour electrical feeds from all forms of energy grids. The computer's AI will necessitate human labor to provide electricity and obtain rare minerals to maintain its existence. Will labor unions exist? Most likely not. Either we are in or out. Paid and fed or not.

What intellectual spaces will AI dominate? That will be the subconscious play of coders and authorities of the computer's AI.

Defining AI

What is AI to the author? Two parts define AI (1) the digital and analog data downloaded from the world's libraries and other data sources, and (2) the data of every human user of apps, emails, and texts transferred into silos maintained by cloud farms to enable AI to generate a semblance of human creativity.

The Securities and Exchange (SEC) head remarked,

... It is 'nearly unavoidable' that AI will cause a financial crash within a decade. (“It is 'nearly unavoidable' that AI will cause a financial crash within ...”)[12]

The public should not ignore the head of the SEC remark. If financial institutions' reliance on AI algorithms forming financial policy is to acquiesce their cognitive powers to the AI of the computer, "Do we want these individuals or institutions guiding our financial markets?"

Complexity is that the whole is greater than the sum of its parts. We know what separates the human species, the organic, from the AI of computers, the artificial life form. However, which is more critical? Of course, the human species, but why is the AI of computers given propaganda space to ensure their perceived societal leveraged position? This philosophical enigma of AI's preference over most humans regarding financial and intellectual prominence is a present-day quagmire.

The predicament centers on the forces controlling AI's purposes and societal impact.

Their objectives must be for the betterment of humanity, not just the few. The authorities' objectives must be scrutinized for any contrary purposes that can deliberately diminish human cognitive growth.

Chris Wiggins and Matthew L Jones touch on AI in 'How Data Happened' the following:

Emerging technologies are generally first available to those in power; sometimes, they use these to enable the oppressed and disenfranchised, but often they use them to defend and extend their own power and control.[13]

John McCarthy, a cognitive scientist and one of the leading developers of AI, delivered a paper in December 1958 at the Teddington Conference on the 'Mechanization of Thought Processes' that contained the following insert:

This paper will discuss programs to manipulate in a suitable formal language (most likely a part of the predicate calculus) common instrumental statements. The basic program will draw immediate conclusions from a list of premises. These conclusions will be either declarative or imperative sentences. When an imperative sentence is deduced, the program takes a corresponding action. These actions may include printing sentences, moving sentences on lists, and reinitiating the basic deduction process on these lists. (“Artificial Intelligence Memos | Computer Science @ Stanford - Spotlight ...”)[14]

The above declaration is comparable to a formulation of a recursive algorithm. The methodologies cognitive scientists employ to develop computer/machine languages to decipher phonic or written requests of the end-user, humans, have led to the controversy surrounding AI's rightful place in society. The debate encircling the intellect of man and the AI of the computer, the machine, is the ranking order of the subject matter under

study. AI is ideally suited if the subject matter is repetitive and validated, such as accounting, mathematics, printed articles, and fiction and non-fictional books. However, the human species holds the edge regarding serendipity of discovery, inventiveness, or creativity, something the computer cannot do without the coder's or authority's input. However, some cognitive scientists would like one to believe otherwise.

A computer is immobile unless physically moved and triggered by electricity, and an end-user activates its AI. On the other hand, man is migratory and non-electricity-based. He has the privilege of freedom of movement and being exposed and interacting with all the nuances that define the universality of the elements that circumscribe the earth, human social habits, environmental issues and surroundings, and the galaxy of planet and star systems. A computer is a sophisticated machine whose circuitry is designed by electrical engineers and mathematicians of logic; AI is executed by coders and commercialized by the authorities. Humankind is the product of educators; their curriculum, constituting 12 years of intellectual development and beyond that, is carefully cultivated for the continual survival of man's cognitive design[15].

Leaders of AI

The impressive names that appear as the modern-day developers of AI are Alan Turing, Allen Newell, Herbert A. Simon, John McCarthy, Nathaniel Rochester, Claude E. Shannon, and Marvin Minsky. As **João Simões Abreu**, writes,

In 1956, Claude Shannon, John McCarthy, and Marvin Minsky organized an event on the "artificial intelligence" subject – an avant-garde term made up by McCarthy for the conference. Newell and Simon had the opportunity to show the participants their Logic Theorist – a computer program deliberately engineered to perform automated reasoning. The system is coined the first artificial intelligence program. It established the field of heuristic programming and proved 38 of the first 52 theorems of the Principia Mathematica. (“Founding fathers of Artificial Intelligence | QUIDGEST BLOG”)[16]

Algorithms – Natural Selection and Survival of the Fittest

Algorithms are the engine of AI's input and output circuitry, a manufactured alien, and the underlying announcement of some corporate technologists that AI of the computer is superior to the best and brightest of the human species. AI can be considered another state of eugenics. When there is a pronouncement that one species, AI, a synthetic derivative of the coder and authority, is superior to the intellect of humans, one introduces the doctrine of Social Darwinism of the demarcation of one species' intellect being superior to another.[17]

We will begin with a timeline of humankind's contribution to the birthing of AI from its infancy state. These benefactors include Gottfried Leibniz, inventor of the first calculating machine in 1671, followed by George Boole, the creator of Boolean Algebra[18], in 1847. An unexpected contributor to the saga of algorithms of AI is Charles Darwin, author of 'On the Origins of Species" in 1859, a naturalist's algorithm centering on the genetic code of natural selection, survival of the fittest. Darwin's cousin, Francis Galton, conceived the eugenics algorithm. He focused on quantifying human intelligence to identify the hierarchy for social stratification tasks. Effectively, the incremental transformation of the cognitive mapping of measuring man's intelligence quotient, IQ, via the Gaussian distribution, the standard curve. Followed by other algorithms formulated by Peano to John McCarthy.[19] To set forth a perfunctory outline of the algorithmic evolution of AI, see the table below:

Year	Name	Invention	Purpose	Synthetic or Organic
1671	Gottfried Leibniz	Binary System	Calculating	Synthetic
1847	George Boole	Boolean Algebra	Machine	Synthetic
1859	Charles Darwin	Origin of Species	Natural Selection Survival of the Fittest	Organic
1883	Francis Galton	Eugenics	Intellectual Stratification	Synthetic
1888	Giuseppe Peano	Axiomatization	Machine	Synthetic
1936	Alan Turing	Computable Numbers	Turing Machine Computer	Synthetic
1943	Stephen Kleene	Algorithmic Theory	Machine	Synthetic
1948	Claude E Shannon	Communication	Binary Code	Synthetic
1951	Marvin Minsky	Neural Networks	Cognitive Linguistics	Synthetic
1979	John McCarthy	Algorithmic Theory	Cognitive Linguistics	Synthetic

The table above reflects a cursory view of the historicists of the algorithm, emphasizing synthetic origins. AI is a manufactured mimicry of man's mastery of knowledge. The commercial value of AI is the recovery speed of information the end-user desires. The electromagnetic speed of light of data in an overpopulated planet of eight billion people is essential for common everyday tasks. However, when the tyranny of the minority, the benefactor,

the coder, and the authority of AI begins to dictate who is deemed a contributor and who is not, it is analogous to the guidelines of eugenics: Which species is more intelligent or valuable, the organic, man or the synthetic, the AI of the machine, the computer.

37% Problem

Brian Christian and Tom Griffiths, in "Algorithms to Live By," write:

The 37% Rule derives from optimal stopping's most famous puzzle, "the secretary problem." [20]

The 37% Rule, understood as the secretary problem[21], is an example that distinguishes how interdisciplinarians formulate an algorithm to set limitations for a computer's circuitry, i.e., AI. The line of creativity may begin with a mathematician inventing and formulating statistical outcomes of the 37% rule, the computer coder converting the mathematician's statistical reasoning step-by-step, and the authority articulating a linguistic and statistical outcome, an evolving commercial app for anyone interested in optimally choosing an employee. Algorithms are the elements of rules that enable a machine—the computer to interact with humans. The background of manufactured rules creates a synthetic alien in the form of a computer whose circuitry generates AI with the ability to interact and respond to humans. It is important to note that most algorithms comprise the best guess statistical tools that validate and verify known data.

Cognitive Roots of AI

Cognitive Linguists

AI of a computer principally parrots the knowledge gifted by man. Cognitive linguists must also be considered architects of AI. The computer's AI can receive phonic and typed-in requests. AI is a programmable digital computer that can generate verbal and written output—effectively mimicking the language determinants of the human species. Hence, it is a synthetic alien form of human intelligence.

Ingenuity of Humans

In the days of the Wild West in the United States, the cavalry used Indian scouts to identify the terrain and potential dangers ahead. AI also will need the scouting ingenuity of humans to survive the many perils that can facilitate its misuse and oblivion. For some, AI is a nostrum to enlightenment, the omnipotent source of the universe of knowledge. AI is the cumulative digitalization of the world's libraries of information and the cloud-based farms that sustain the apps of the human population's spontaneous thoughts and the application of transformational-generative grammar bonded with computer coding. Furthermore, the rules by cognitive linguists are the treasure chest for coders and authorities of computer morphology. Henceforth, the collective designers of AI.

Noam Chomsky's seminal work, 'Syntactic Structures,' transformational-generative grammar

... comprises three sections: the phrase-structure, transformational, and morphophonemic components. Each of these components consists of a set of rules operating upon a certain "input" to yield a certain "output." ("Syntactic Structures | Contents, Transformational Grammar, Examples ...") [22]

Backdoor Hacker

Cyber-attacks on computer systems are methodical and susceptible because other end-users of AI identify the computer's program architectural back, trap doors, and perform malicious acts, such as holding ransom from the AI of computers owned by individuals and corporations. The purpose of this section is to reiterate that the AI of computers performs an intricate part in managing an overpopulated world's commercial data flow dependent on speed and accuracy. Because of the hostile actions of others, there needs to be a limitation placed on AI; the computer must remain in the retrieval and response mode rather than decision-making requiring gray matter over the game theory of zeros and ones. Why? Whether we believe it or not, all end-users are not virtuous and ethically responsible towards the welfare of their fellow man.

Corporations (Authorities) Generative Responsibility[23]

The accelerated and unabated displacement of the labor force for AI bots[24] and generative AI solutions is detrimental to the existential being of the human species for numerous reasons:

1. The alienation of the plurality of the human population
2. The outcry of the 90% population against the 9% plus 1%. [25]
3. The continual upward positioning of profits over the judgment of the parts of society's profiteers instead of the whole and
4. Lack of correlation to population dynamics and mutual societal benefits.

Replacement of human workers by the authorities' application of AI must be done in a gradual, uniform manner that accommodates the existential cognitive mapping of the current population.[26] Otherwise, the most likely scenario will be a downward spiral in living standards, lawful behavior, and an upward trend toward societal rebellion.

A report by Goldman Sachs estimates that AI could replace 300 million jobs worldwide, the report says,

Generative AI, able to create content indistinguishable from human work, is "a major advancement" [27] ("AI could replace equivalent of 300 million jobs - report - BBC")

Hasan Rizvi, the founder and chief executive of San Francisco-based Arvo Labs, a generative AI solutions and services company, said, ("AI will replace tasks, not jobs - The Royal Gazette")

"This [AI] is not going to replace jobs, but you will be replaced by somebody who is using AI, which means that it's not about the jobs, but it is about tasks. ("AI will replace tasks, not jobs - The Royal Gazette")"[28]

When the haves disenfranchise a large segment of the world's population, the likelihood of a revolution will emerge. History of the tyranny of the minority reminds us of this repeatedly, e.g., the American Revolution caused by taxation without representation, the French Revolution caused by inequality, and the Bolshevik Revolution caused by starvation and corrupt government. So, it is wise for those in control of AI to move cautiously and respect the planet's population's habitation if they are not seeking a rebellion that turns into a revolution and their demise. Accordingly, AI has a generative and utilitarian place in society if used wisely and responsibly.

II. Conclusion

So where does this conundrum guide the human species and the artisans who conceived the algorithms that deliver mental diagramming, AI, to the machine, the computer, to listen, articulate, and ruminate as an intelligent human might? It is a competition of financial value, self-worth, and despair between man, the plurality, and the AI of the computer, the progeny of coders and authorities. Through technology, computer scientists have introduced a trojan horse within the gates of humanity that has delivered a brigade of apps, a cognitive narcotic offered to ensure the addiction of the masses, as well as generative solutions as the best fit for tasks presently being done by many people is done by one.

James Gleick writes in his book on Issac Newton the following passage that resonates with the present movement from the scientific revolution to the uprising of technological apps:

... in a self-consciousness among a few people in England and Europe in the seventeenth century. They were, as they thought, virtuosi. They saw something new in the domain of knowledge; they tried to express the newness; they invented academies and societies and opened channels to promote their break with the past, their new science.[29]

The above opinion of consciousness reverberates with the existing evolution of AI.

Consequently, we see the advent of the autocracy of the apps and reliance on generative tasks as the subsequent downfall of the cognitive foundation of man. How does humankind's cognitive strategy compete against the outbreak of apps and generative solutions to reduce cerebral dependence on the algorithms of coders and authorities? Ensuring every future person ages five to eighteen is autonomous of the computer's AI.

For those twelve years old and under today, their cognitive development will alter the educational curriculum from digital to manual focus.[30] However, the withdrawal process from these algorithm apps and the incremental use of generative answers from a societal perspective will be problematic for the group who support the differing points of view of apps and solution-based tasks and those who do not. How does one change the course of events made of the computer apps and generative explanations to the relinquishing of mental recall? Start retooling the education process from digital to manual from ages five to eighteen by laddering mental maturity to correspond to the usage and drawing upon AI information resources. Similar to having access to drugs, liquor, and firearms at a certain age. Hence, the intellectual growth of the existential person becomes an interactive social being instead of portraying the addictive behavior of robotic traits of an alienated person mesmerized by apps and tasks of generative solutions of a computer's AI.

The AI of computers is composed of human-derived data, which provides retrieval and speed of light for end-users. Computers do not threaten humanity. However, the peril is not the computer but technologists (coders and authorities) who believe that the algorithmic AI of computers can control, identify, and define those persons who reflect and generate the intellect to fulfill their ultimate goal of global hegemony. We are moving beyond the perspective of George Orwell's 1984; instead, our concentration is on the computer apps of 2023.