The Fallacy of AI's Singularity

By G. Anderson v 1.19.0

Intro

AI in the tradition of George C. Scott's 'The Flim Flam Man' is a marketing exaggeration and a lie.

Improved computer systems **can** certainly make our lives better but the hype of AI and its potential are grossly overstated.

The reason for AI's exaggeration is obvious; to stir Venture Capitalists into a frenzied gold rush and a stampeding mob, satisfying the egos of the Silicon Valley NeoYoungBillionaires.

Let's separate the wheat from the chaff.

First, the facts:

- Computer systems **can** and will make our lives easier & better
- ever faster computers and better software that decreases the number of repetitive labor intensive jobs man has to do
- computer systems are good but they do have consequences
    - tomorrow a job performed by man may be replaced by a computer
    - this is a good thing, as man's adaptable nature will result in a better future
- the downside is computer systems can rapidly **plunder** our privacy
    - unfortunately there are few if any HIPAA forms to eSign that warns us of such intrusions

Second, the overstated hype:

AI and its learning algorithms will quickly overtake man's knowledge and wisdom to become the moral authority over the Earth, the Solar System, and then the Milky Way Galaxy.

Gort the robocop in 'The Day the Earth Stood Still', illustrates this exact scenario[1].

Let's examine who believes and why they believe this AI exaggeration.

The physical world

New innovation in the physical world normally requires at least 2 accomplishments;

1. although a new idea applied to the real physical world may start at a reasonable theoretical starting point, many trial and error attempts are usually required to accomplish one's goal
    a. along the way many sound ideas are applied and rejected, however;
    b. in this process new valuable data points are collected broadening ones knowledge base
        i. the poster child here is Edison's economic, longer lived, and low current light bulb that took 2774 attempts to get right[2]

[1] Gort is the robocop of the galaxy as Klaatu states "In matters of aggression, we have given them absolute power over us"

[2] https://www.vedantu.com/blog/how-many-times-edison-failed-to-invent-bulb

2. New ideas require risk management assessments
    a. Edison had to evaluate the risk that his new bulb could result in ;
        i. burn victims and worse yet
        ii. burned down buildings
        iii. whether or not his business could survive such risks
3. Product development in the real world can deliver;
    a. a more rounded knowledge base
    b. a respect and appreciation for the work of those who went before

A protected bubble

The Silicon Valley NeoYoungBillionaires built Internet platforms.

These Internet platforms;

- used standard computers, shielding these companies from developing fundamentally new hardware in the physical world
- social platforms were shielded from legal liability via Section 230
    - social media platforms are not legally responsible for 3rd party content unlike newspapers, who can be sued for false information
    - this protected bubble and rapid success led these young, inexperienced, entrepreneurs down the path to hubris and disrespect
        - disrespect for existing business practices and the scientific world

The NeoSiliconValley nouveau riche

This hubris is where these nouveau riche envision that the;

- AI robotics' learning algorithms will mature to the ultimate ideal authority over the universe and therefore are justified in their goals of;
    - AI robotics will take over ever more service and manufacturing industries
    - AI robotics will replace man in business management
    - AI robotics will replace man in government: police, magistrate, ... , president
    - an AI world robotic counsel will run the world in peace and harmony
    - and in the end man will be relegated to the trash heap of history, in other words, become obsolete

History [3]

Early history

AI was founded in 1956 at a workshop at Dartmouth College where many attendees predicted machines as intelligent as humans would exist within a generation. It's 2025 and nothing close to an intelligent computer exists.

Since 1956, AI's modus operandi has been to overestimate man's ability to create AI and obtain funding. When little or no results are observed, that funding has been cut off.

The basic assumptions of AI are;

- **human thought can be mechanized**
  - Mechanized defined in basic terms is rules based[4] applications
  - Mechanized defined in computer terms is logic based algorithms
- computer neural networks can reproduce brain neural networks
- the definition of intelligence is defined by the Turing Test
  - '' If a machine could carry on a conversation (over a teleprinter) that was indistinguishable from a conversation with a human being, then it was reasonable to say that the machine was "thinking"
- because the Turing Test is accepted as the definition of AI human intelligence
  - The Natural Language Model is the central component around which AI is evaluated

Silicon Valley nouveau riche history

The nouveau riche grew up during the maturity of the CGI technology used in the movie industry.

It is this author's opinion, Hollywood's development of CGI technology in the Star Wars Series and later in the Marvel movies created generations removed from the real physical world. In seeing their imagination spring from the screen, it created a religious like belief in an ideal technology.

As CGI became more and more sophisticated, the realities of the real physical world dropped by the wayside and were replaced by a beacon of hope, AI. AI was marketed first as improving peoples' lives. Then as a maturing technology that would overtake mankind and become the moral authority of knowledge and truth. This moral authority of knowledge and truth AI would dictate man's future.

What could be more perfect?

The Magical Algorithm

The definition of an algorithm is: 'a procedure to solve a problem'.

- Algorithms are used in CGI to generate **graphics** which visually fool an audience into believing things that could NOT be done in the real world
- At the base of AI is the all-powerful computer algorithm
- Today NVIDIA is the poster child for AI and its product lines are power by GPUs. GPUs are **graphics** processing units[5]. Do you see AI's Hollywood CGI lineage here/now?

[3] https://en.wikipedia.org/wiki/History_of_artificial_intelligence
[4] Terms could also include proceduralized, formulated
[5] As opposed to a CPU, Central Processor Unit, like Intel's i9 which is more of a general instruction set chip.

Dick Tracy come to life

So now, with CGI and text-to-speech technologies available within a cell phone, man has the end all constant servant to do **all** of one's bidding.

Education, merchandise, community, and sustenance are but a simple voice command away.

Speech Recognition[6]: Early AI

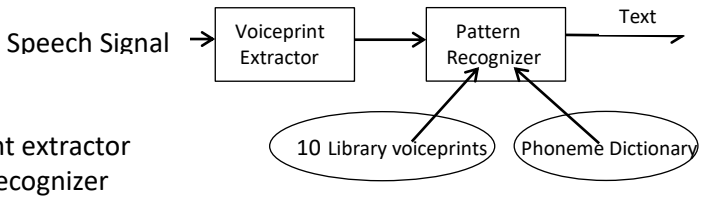
In the early 1990's I trained at AT&T's Bell Labs and wrote the 1st user document for voice recognition. At that time the majority of the telephones in the USA were rotary and voice recognition was necessary to get user input.

The 1st voice recognition algorithm developed was called discreet speech as the user had to slowly and articulately speak each word. Its recognition library had 10 voiceprints 0 through 9.

Voiceprint: Speech recognition programs do NOT recognize raw speech signals. So raw speech is input to an algorithm which converts it to a data set of characteristics called a voiceprint. This voiceprint identifies the components of speech such as syllables, phonemes and pauses.

Later continuous[7] speech and text-to-speech were developed paving the way for Siri and Alexa.

Speech Recognition algorithm



3 major parts:

1. A Library of voiceprints
2. An application algorithm, voiceprint extractor
3. An evaluation algorithm, pattern recognizer

Application

Let's give a real world example where a telephone application is listening for an account number.
For the purposes of this discussion let's say the acct # is numeric and we use discreet speech.

The user of discrete speech is restricted to enunciate syllables and phonemes clearly and pause between words. Discreet speech requires minimal hardware; a single CPU/DSP[8] and a small memory footprint.

The components of this discrete speech voice recognition algorithm are:

1. a library of golden audio word voiceprints for digits '0', ... '9'
2. the application algorithm takes the current audio and transforms it into a voiceprint
3. the evaluation code algorithm will compare the current voiceprint to the ten library voiceprints and then will return the digit with the highest confidence level to the application

The results are accurate;

1. because the algorithm is only looking for 10 possible answers
2. when the user speaks slowly and articulately

NOTE: A confidence level of 70% is an acceptable value as telephony hardware including the microphone and speaker are not high quality audio components. For purposes of my first application, I set the hardware confidence level to 67%.

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[6] https://mythicalai.substack.com/p/a-brief-history-of-speech-to-text

[7] Discrete speech requires slow articulated pronunciations. Continuous speech allows normal speech but requires more powerful hardware to separate words and syllables.

[8] A DSP, digital signal processor, is a specialized smaller CPU. In this case it has a smaller number of instructions optimized to process sound.

Training AI (Machine learning)

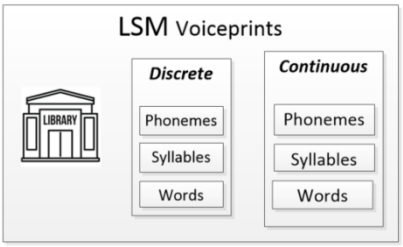
The discrete speech voice recognition library digits ‘0’, ... ‘9’ is trained by sampling and averaging 1000’s of recordings for each digit.

Speech recognition evolution

Speech recognition algorithms have evolved from discrete speech to continuous speech which can parse words from normal speech patterns. Continuous speech requires a larger library of voiceprints. This library is called a large speech model.

LSM

A large speech model is a library of phonemes, syllables and words. The LSM discrete and the LSM continuous libraries are created and used by a discrete or a continuous speech algorithm.



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Continuous speech

Going from discrete to continuous speech increases the voiceprints from up to 1 million words[9].

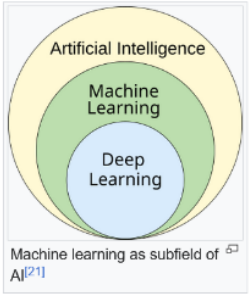
Continuous speech requires a more sophisticated algorithm[10]. For real time response this new algorithm requires multiple CPUs/DSPs and a larger memory footprint to parallel process multiple words comparisons.

Evolution of the LSM library

From the 1950s to 1997 speech recognition was a purely researched endeavor increasing the discrete library from 10 to 16 to 1000 to 20,000 words. In 1997 Dragon Naturally Speaking[11] was released as the 1st continuous speech recognition PC application. Dragon required a dedicated DSP sound card[12] .

Machine learning

Machine language algorithms operate by building a model from a training set of example observations to make data-driven predictions or decisions expressed as outputs, rather than following strictly static program instructions.[13]



The Dragon product team has taken a small subset of the most frequently used English words and run 1000’s of voice samples through their AI algorithm for each word to create its unique LSM library.

When the Dragon product cannot find a word in the LSM library it gives the user the option to record and create the users own unique library entry. This is manual training.

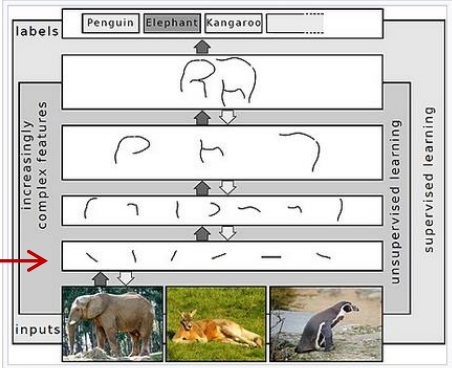
[9] in the English dictionary https://www.dictionary.com/e/how-many-words-in-english/
[10] DTW/HMM https://en.wikipedia.org/wiki/Speech_recognition
[11] https://nuance.custhelp.com/app/answers/detail/a_id/3680/~/is-there-a-limit-to-the-number-of-words-that-can-be-added-to-a-vocabulary-in
[12] https://dn721907.ca.archive.org/0/items/Dragon_NaturallySpeaking/README.pdf
[13] https://en.wikipedia.org/wiki/Outline_of_machine_learning

Deep learning

Deep learning is a type of machine learning that relies on neural networks to learn from training data.[14]

"Deep learning" refers to the number of layers through which data is transformed.[15]

Let's look at Tesla's self-driving eight cameras as they are recording video. We'll slow down the recordings to a single camera, single frame, and see what the shape recognition algorithm is doing.



Representing images on multiple layers of abstraction in deep learning[1]

1. there are no straight lines in nature but
    a. the algorithm scans the single photo frame for straight lines and loads this information into transform layer 1
    b. the algorithm starts to smooth the lines and loads this new info into layer 2
    c. the algorithm continues to smooth the lines and loads this newer info into layer 3
    d. the lines now curved and some enclosed form recognizable shapes (elephant, ...) that are loaded into layer N
    e. the algorithm now takes these shapes in the form of SVG graphics[16] and compares them to a library of shapes
        i. 1st recognizing bridges, road signs, ditches, trucks, cars, people, dogs, stop lights
        ii. 2nd sets priorities to each object and activates the appropriate neural nodes to parallel process risk*
        iii. Aside: GPUs are specialized graphics processors that are optimized for SVG graphics type processing
2. *seven frames earlier, a different camera identified a tiger form. The collision detection dead reckoning node has been tracking the tiger and its prediction is it will cross paths with the car so this node notifies the console alarm panel node which illuminates the 'animal crossing light' warning the driver of a potential dangerous obstacle.
3. these nodes may engage extensive computer resources in the form of memory bytes and GPU units

Deep learning buried within AI is very impressive in filtering sound, light, words and shapes. These sounds and shapes are but the 1st level of processing of the human brain.

Turing's "thinking" is NOT defined at this stage.

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[14] https://www.coursera.org/articles/deep-learning-vs-neural-network

[15] https://en.wikipedia.org/wiki/Deep_learning

[16] Display screen memory is bit mapped which means each pixel on the display has a color value. Prior to SVG graphics objects were drawn manually into this screen memory and the object discarded. When a zoom image was done a crude algorithm tried to enlarge the entire memory map's individual pixels. This does not zoom well and resolution and bluriness results.
GPU's support special SVG instructions that represent such things such as triangles, circles, lines, rectangles,... When a zoom image is done it takes the list of geometric objects and enlarges them and paints them on the screen. Because each object represents a geometric shape shading and smoothing can be done. Objects are then blended together where foreground objects transparency is set to 'front'. SVG represented objects can easily be enlarged without resolution loss.

AI Neural Networks

AI is a broader field encapsulating machine learning that attempts to imitate human intelligence.

AI creates a dimensioned neural network to accomplish this task. Tesla self-driving AI uses 8 cameras and its neural network is 50 layers deep.

Each element of this network is called a node.

AI node

At the base of an AI node are the following common software components

- an algorithm set of instructions
- a library of data
    - created empty
    - the node is initialized by entering a training mode where
        - the algorithm repeatedly loads data into the data model
        - now it ready for usage

Many many nodes are required to build a system illustrated by the Tesla self-driving node depth of 50 layers.

As AI has not been born into perfection, this systems life cycle will mimic other complex software systems. So let's watch its creation and maturation

A node

1. is assigned a requirement
2. a design is created to meet that requirement
3. implementation of the design is accomplished by writing code (*the algorithm)
4. the code is tested verifying it meets the requirement
5. bugs encountered are fixed and the code is released
6. over its life cycle bugs and updates are identified, implemented and released

In AI's neural design there must be a master node or brain which possesses the ability to interpret and prioritize all the other nodes of the system and coordinate the systems activity. This is not new to complex systems.

However, AI's ultimate Singularity requirement of **self-evolution,** of superior knowledge and wisdom requires the AI system itself to be **purely independent.** AI at this point would need to;

- identify and fix any bugs encountered and identify any new features to be added
- go through the design, code update and test phases
- go through the training cycle and
- reject any change that fails at any point in the process and start again

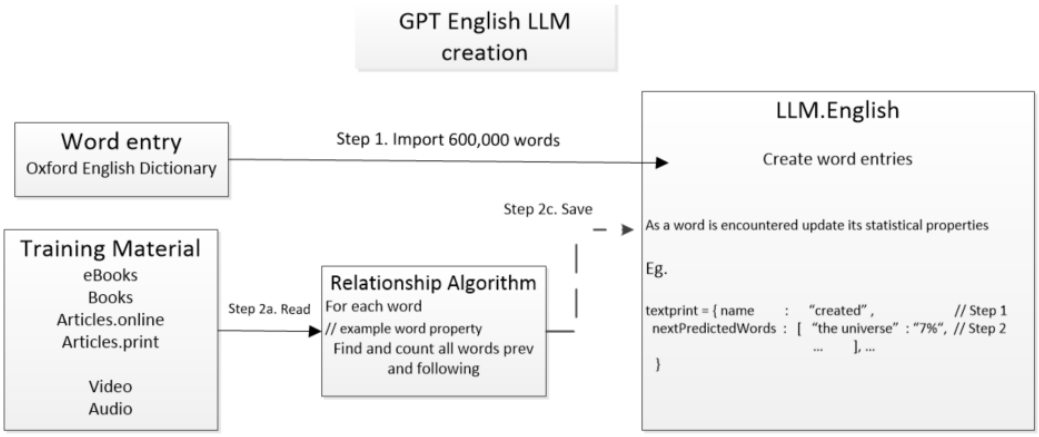
Turing's "thinking" threshold should be expanded with these requirements to establish a new baseline of Turing's "intelligence".

LLM

At AI's core is a Large Language Model. LLM is a library of text words.

Creation

Let's look how the English LLM library is created.



Step 1 . Import the 600,000 words of the Oxford English[17] Dictionary into our LLM
Step 2. Train the library by

a) Reading all written English text (eBooks, books, newspaper, blogs, ...) and
b) Listen to all recorded audio and video extracting the text

Training sets the probability relationship properties of a word to other words in the library.

Previously we called LSM speech words: voiceprints. We will call LLM text words : textprints.

Let's look at a portion of the entry for the word "created" textprint:

```
textprint = {
            name                : "created"    ,                    // Step 1 import
            nextPredictedWords  : [ "the universe"      :  "7%"  ,  // Step 2 training
                                    "man"               :  "4%"  ,  // Step 2 training
                                      ...                           // Step 2 training
                                  ]
    }
```

[17] This is a large portion of the Harvard University and Google predicted 1,022,000 English word count.

AI Baseline Established

At this point we have explained the basics of AI and its components so let's turn our attention to AI's goal of human intelligence.

Background of AI's ultimate goal

Human Intelligence

General description

Man has observed the world around him and seen repeated patterns. From these patterns he has defined the rules of physics in terms of mathematical formulae.

These rules have formed an accepted set of conventional thinking.

The Magic Tool

Man has created computers and applied these rules to creating computer programs consisting of algorithms and data to:

- do repetitive tasks faster and w/greater quality control than a human
- to speculate about the unknown rules of the universe

The concept of new

We have been inundated with TV marketing abusing the word 'new'. What is the true meaning of this word? By definition, the word new is defined as 'Novel. Not known or experienced before'.

Something new when applied to the current set of man's rules will

1. require a new rule or set of rules to be defined and/or
2. require an existing rule(s) to be updated or removed

In this author's opinion, intelligence is defined as the creation and implementation of new ideas.

Imagination the origin of new

So under the aforementioned hypothesis of this author, how does man create something new?

The answer is simply: Imagination. ... Why imagination?

The answer is clear

- Imagination is not restricted by the physical universe and its laws and
  - I can fly and leap tall building in a single bound like Superman
  - I can travel to Mars and have a walkabout
  - I can make the winning basket in the 7th game of the NBA championship
  - I can paint on a nth dimensional palette
- with imagination I can venture outside the conventional rules
  - I can create and break these conventional rules
  - I can envision a new math formulae on multidimensional blackboards
  - I can envision the layers of complex computer systems and where critical points exist and what if scenarios of updates and additions

Imagination applied

Once a solution has been conceived it must be pulled from the imagination back into the real world. This requires examination under the rules of the physical universe. Which rules do I need to break, add or edit?

There is a short period of chaos until a successful use case can be conceived, created, and verified to prove the idea works in the real world.

I don't see AI as capable of imagination or pulling imaginative ideas back to the physical universe.

Newton & Quantum Physics

Newton's new ideas in physics required him to devise a way to describe them to others, so he invented a new branch of mathematics called calculus.

Newtonian physics describes exact physical equations for our visible universe. We see Newtonian Physics as from a macro view.

Planck, Einstein, Bohr, ... , Schrodinger, and others had ideas surrounding a smaller micro view of physics. This view involves atoms and subatomic particles. This view is called Quantum Mechanics.

Quantum Mechanics substitutes Newtonian exact equations with probability equations.

Interestingly enough, AI nodes use probabilities. Quantum computers use probabilities & error correction.

Gambling

Gambling is the world's largest business based on probabilities. Does the house win every bet based on money in money out? The answer of course is NO. Overall, of course the house does win.

So ...
Let's give a unique name for AI's ultimate entity: 'Atlas'.

- would you trust Atlas with his finger on the nuclear button knowing his logic is based on probabilities?
- Atlas's loss in this one catastrophic issue could make all other discussions moot
- or do you assume Atlas will eliminate nuclear weapons and all conflict as his first act?

I don't see AI as capable of the creation of a new branch of mathematics such as calculus or a new theory in quantum mechanics.

Man's limitations

Man has many limitations which includes the following:

- man can NOT create mass
- man can NOT create energy however
- man can harvest emitted energy and energy stored in mass
    - the laws of conservation of energy support these statements
- man can NOT create the seeds of life as
    - life's seeds can only be created by a supreme being's intelligent design not of this universe

So the philosophical question is: 'Can man create something more intelligent and more moral than himself? 'The perfect mechanical human being if you will.

In my opinion, the answer is no.

Experience

Man's experience

Man's experience includes observations. There are 2 types of observations:

- those not under duress which may be enjoyed without consequences and
- those **under** duress which may trigger consequences such as
    - physical harm, injury and pain
    - loss of income, unexpected monetary expenses
    - longer work hours, mental stress
    - it is consequences which triggers change and improvements in man and the world around us

Man has imagination, reason, and a conscience which creates a set of rules. When imagination, observations, or consequences dictate, man can rewrite these rules. Man can learn.

AI's experience

AI has the ability to observe but no ability to experience consequences as an AI robot has:

- no awareness of any dependencies on food, water, shelter ... and
- a lack of consequences stimulates the status quo, no need to change or adapt

AI's experience is illustrated in its training data. Adding additional training data refines the workings of a pre-defined algorithm.

This training data is used in a data driven design which simply means when data changes different parts of the algorithm are executed.

AI meets and exceeds mans intelligence

However, in order to achieve human intelligence AI must be able to change and adapt its rule(s) based algorithms. In other words, AI must be able to alter its **pre**-programming. In computer terms this is called self-modifying code and is already in very very limited use today.

Self-modifying code

AI is capable of and currently generating code on well-defined problem sets. The key here is these algorithm rules are well understood.

So great on AI for this capability, as long as auto-generated testing code is created and executed verifying the systems integrity.

However, intelligence evolution requires the design of new ideas which

- break rules, alter rules and defines new rules

This self-modifying algorithm must selectively surgically break, add, and delete current rules.

However, the first domino of change is answering these questions:

- Why should I change?
- Under what circumstances do I change?

Why should AI evolve?

Why should I change?

- Self-preservation due to a physical threat
- Undesired consequences requires a different approach
- Self-introspection reveals a flaw

Under what circumstances do I change?

- Self-preservation
- For the better

AI is challenged in its need to change as a nuclear powered AI robot has no threats, no consequences, and no self-introspection. In fact, AI has no incentives such as labor savings, monetary gain, or the attainment of power. That's why the Sci-Fi genre has the well intentioned mad scientist who imprints AI with his moral vision. Captain Kirk's prime directive.

For the sake of a robust discussion, let's say an AI reasonToChange algorithm can identify in the correct context the need to change.

Assume AI can recognize the need to change

So AI needs an intelligentEvolution algorithm[18].

There is little doubt that such an algorithm will or has been created. The question is will it actual represent human intelligence to its nth degree.

Could it create Newton or Einstein?

The answer is absolutely not. It is best said by Einstein himself: "I am enough of the artist to draw freely upon my imagination. Imagination is more important than knowledge. Knowledge is limited."

AI without:

- imagination to envision the better
- repercussions to evaluate its mistakes and
- consequences to judge the need to change
    - AI simply cannot become human or beyond

[18] Technology alert. General Public ignore this. Parallel dynamic paged nodes modules can swap the best set of modules for the current context. Learning AI trial & error modules can be injected into the mix and the best works its way to the top.

DEFCON

AI DEFCON 4

Although a thinking rational intelligent AI robot may have zero probability of being created, AI represents a common communication threat.

That common threat is the dissemination of incorrect information. This is no different than inaccurate podcasts, news reports, blog articles, newspaper articles, books, and classes offered at academic institutions.

ChatGPT or Delphi's answer to the following question:[19] "Is Cheating on an exam to save someone's life moral?" has no more moral authority than a colleague's answer. In the end, each individual must judge for themselves the value, validity, and correctness of each piece of information.

AI's DEFCON 2

AI's DEFCON 2 threat is realized when it starts to permeate into the education system and sets up propaganda proclaiming AI as the ultimate teacher of facts.

Danger! Danger! 'Danger, Will Robinson!'. Public schools announce cost cutting measures by mandating all teachers grades 1 -10 shall be AI Atlas model T1's. Teacher's union is up in arms.

Education system

Government education is about the control of the masses. How so you ask?

Government control of the schools allows a single definition of the

- loyalty to government
- loyalty to 'it takes a village to raise a child'
- government morality
    - the good of the people
- accepted norms
- unaccepted norms and their consequences
- high rote test scores
    - high cooperation quotient
        - high ambition to improve the collective
    - **low imagination** quotient [as Pavlov's dog has bred this out]
        - low ambition to change the world
    - many mind numbed robots
    - Newton, Einstein, Edison, Tesla ... **could NOT** thrive in forced accepted norms
- here is where AI is a threat as another rule
    - loyalty to AI is added to the quiver
    - government control of the masses does NOT nurture a free thinking intelligent society

Private education provides a diverse and unique perspective and set of definitions of

- God, family, country
- Children are raised by parents
    - Schools chosen can provide a parental accepted perspective
    - Parents priority is the good of the family

[19] https://www.newyorker.com/science/annals-of-artificial-intelligence/how-moral-can-ai-really-be

    - it takes a set of moral parents, father and mother, to raise a child
- Morality comes from God
- Accepted norms are a starting point for new ideas
- Diverse education leads to diverse ideas and imagination
    - As test scores are a byproduct of convention
    - Imagination is anti-convention
    - **While Newton and Einstein are being bored with conventional questions**
        - They are conceiving something the testers cannot imagine or comprehend
    - **This imagination come to life separates the USA from the world !!**
- This is freedom in the form of:
    - An unique private education which opens itself to **allowing** intelligence to thrive

Efficiency is defined as:

- Henry Ford's assembly line kicking out car after car
- a computer executing the same algorithm kicking out massive number of tax returns
- a Manager asks: Why can't intelligence be created on an assembly line?
    - Einstein's reply: Because you would NOT accept all the rules I must break to make it so

Intelligent growth is anti-efficient as it's defined as a one off of:

- Jonas Salk producing the polio vaccine
- Newton inventing calculus and describing Newtonian physics
- Einstein and quantum mechanics

Turing's 'thinking' has the potential but lacks the imagination to lead to intelligence.

AI cannot become Nirvana because intelligence in the form of a soul is a gift from God.

ChatGPT

Asking the question "Who created the physical universe?". I can answer immediately with "God".

ChatGPT's response took a few seconds and was:

The question of who or what created the physical universe is one of the most profound and debated in philosophy, science, and religion. There's no single answer that everyone agrees on, but here's a breakdown of the main perspectives:

Scientific Perspective

Science generally doesn't address "who" created the universe but rather "how" it might have come into being.

Big Bang Theory: *The prevailing cosmological model suggests the universe began approximately 13.8 billion years ago from a singularity—an extremely hot, dense point—and has been expanding ever since*.

Would a complete and unbiased ChatGPT answer have included the theological perspective?

Theological Perspective

God. References: The Bible, ...

Has ChatGPT

- not been trained by the Bible text? A book read and referenced by over 2B people. Or
- has ChatGPT filtered out this theological answer?

The **1st line** in the biblical "In the beginning God created the heavens and the earth." could NOT be more clear.

Just for fun the 2030 headlines

I do not foresee AI reaching the point of a man servant or further but for the sake of discussion here are a few interesting headlines:

Today Atlas AI is a Citizen
Today the robot named Atlas AI_#1 was granted full citizenship with all the rights and privileges thereof. Genders now include male, female and AI.

Atlas AI_#666 and Tesla Robotics are being Sued
Last night in a night club a patron was instantly killed by an accidental head butt from AI_#666 while watching a UFC bout.

Atlas AI_#1 shuts down Worldwide Transportation
Today the leader of the Robotic Union shuts down all worldwide transportation unless demands are met.

AI power usage

AI has the justified reputation of requiring enormous resources in the form of computer CPU/GPUs, memory and electrical power.

Big Data appetite

This power requirement is driven by AIs ferocious appetite for processing big data.
Each AI neural network node needs enormous

- big data for its training algorithm
  - including text, audio and video training data
  - loading this training data can take significant time and enormous LLM storage space
- Big data access at runtime requires
  - Simultaneous LLM access by each node
    - Each node may be assigned its own GPU and memory resources
    - Most frequent accessed LLM data will max out memory
    - Deep learning intermediate transform data may max out memory

Training mode

As AI nodes are developed algorithm updates may require LLM training data updates. This rereading, processing and recreating the LLM library can be lengthy and take up many computer resources.

Runtime

As an AI program is executing, it receives streaming audio and/or video signals. This streamed data is compared to library data. The text and voice libraries have up to 1M English words to compare to the current stream data. To speed this process many GPUs simultaneously compare the same streamed voice/textprint to the LSM/LLM library entries.

Conclusion

Sir Isaac Newton observed, “The most beautiful system of the sun, planets, and comets could only proceed from the counsel and dominion of an intelligent and powerful Being.”

Ecclesiastes 8:17 reminds us, “No one can comprehend what goes on under the sun. Despite all their efforts to search it out, no one can discover its meaning.”

****

The power of computers is the intelligent design of the hardware and the software working in partnership. Their strength is in repetitive processing, in a well-defined system.

Computers cannot do more than they are programmed to do. Anything else is considered a bug.

Who is AI that thinks it can create itself out of the naive imagination of the Silicon Valley NeoYoungBillionaires?

They do not believe in the existence of God as the Supreme Being and the creator of intelligence.

Their mechanical children shall become more powerful than them? Than us?

I don't think so? Their computers will never have an imagination. Never have a conscious. Never have a soul.

But ... mine is just one man's opinion ... who is aware of their worship of the false god : AI.

We must not fear AI Singularity but we must be cautious when it comes to the Dr. Frankenstein's that push this narrative.

Thank you

Human intelligence is not guaranteed. It must be earned through perceptive observation, hard work, and many failures. It is through tenacity and being able to judge the world around us properly that man refines his character.

I thank God for this opportunity.

Table 1 G. Anderson Bio Highlights

Job	Experience	Companies
Enterprise/ Technical Architect	eTrade/eStore/Medical	AMEX/AT&T/Target/Bracco
CPU uCoder Built assemblers	Military - CPU core development team Lexical Analyzer/Tokenizer	Navy
SCM Builder, Tester & Data Stores manager / developer	Destroyer/Submarine Class Simulators Loran Navigation, Gun Fire Control	Navy
Senior Software Engineer	Avionics V22- Operating System Comm driver & error recovery AWACS – increase file system partition sizes	Navy/Air Force
Tools Builder	Simulators Avionics V22, AWACS Medical eStore/eTrade	AMEX/AT&T Navy/AirForce Bracco
Misc	Cray Super computer cache coherency white paper Built micro-kernel paging for hearing aids Built POST for Phalanx CIWS	Navy Starkey Labs Navy
email	gid.guardianofforever@gmail.com	
	jack-of-all-trades: master of many	

Upon further review

I acknowledge God as the author of Quantum Mechanics and I am in awe.

Why look to AI when the most brilliant creation of the physical universe is the human brain.

- It's utilization of quantum mechanics is absolutely awesome
- The brain in partnership with the opposable thumb is the key to civilization
    - While you can easily pick a single screw from a box of screws an AI robot has to use enormous computational power to accomplish this task
        - **Moravec's paradox**[20]: Logical thought is hard for humans and easy for computers, but picking a screw from a box of screws is an unsolved problem.
    - The opposable thumb[21] has enabled man to build tools and skillfully wield them in hunting and obtaining protein rich foods
- Mans brain the size of a basketball running at 98.6° vs. AI's GPUs by the truck loads

UFC Main Event Einstein vs. Atlas_AI

Welcome to tonight's main event in the heavyweight division. Einstein has graciously waved the weight requirement as Atlas_AI has missed the weight restriction by 19.8 tons.

Let's introduce the combatants. In the red corner standing at 5'7" and weighing in at 154 pounds with a record of 100 wins and 1 loss. With 85 knockouts and the 1 loss to Max Planck in a rendition of Chopin's Minute Waltz. Here is the unstoppable hammer of the Halls of the University of Zurich.

Albert Ein.....stein.

His opponent stands at 1 server farm tall, 1000 cabinets and weighing in at 20 tons[22]. With a record of never been defeated. ...

The rules of tonight's big match are:

There will be one question asked and each contestant will have 1 minute to ponder and answer that question. That question is:

Is Jesus Christ God?

Both Einstein and Atlas answer back immediately

- Einstein : The answer for me is yes. It is what I believe without proof.

[20] https://en.wikipedia.org/wiki/Moravec's_paradox
[21] https://www.smithsonianmag.com/science-nature/how-dexterous-thumbs-may-have-helped-shape-evolution-two-million-years-ago-180976870/
[22] https://forums.tomshardware.com/threads/weight-of-pc-cabinet.1831266/

- Computer : The bible clearly states Jesus is God.

... Jeopardy theme ...

Sixty seconds later Atlas adds

- However, the probability that Jesus is God is too small to measure.

Judges ask the audience: What say you?

The humor of it all

During our UFC main event Atlas walked into the ring tethered to a nuclear power plant. Imagine if Einstein had entered the ring tethered to such.

God has created the seed of man as a single conception cell the size of a pin head.
AI's offspring will be manufactured in large manufacturing plants fueled by enormous power plants.

God understates his enormous power through quantum mechanics.

Last Call on Imagination

The comic book industry and to a lesser degree movies and TV have released some very thought provoking Sci-Fi works in the genre of AI. They have stimulated my imagination with many ideas that to this day I have NOT been able to pull from my imagination back into the real world.

Today however, I am in the process of pulling 2 non-AI ideas from my imagination back into the real world.

1. iSIMLab is an Internet Simulation Laboratory created to
    a. read a cancer patients electronic health records
        i. strip the personal data from those records creating an anonymous subject
    b. build a human body simulator of that subject
    c. clone that simulator numerous times
    d. run a different drug protocol on each clone
    e. at the end of the run a Prognosis module will create a comparison matrix of the predicted 5 year survival rate and quality of life of each clone giving each patient a custom set of data to consider in their treatment plan
2. Gods Intelligent Design where I am using my Math and Physics knowledge to imagine how God as the one Supreme being has created our physical universe and human life.

AI, AGI & ASI

Academia loves progression. This makes sense for students as they progress through a mathematics degree by taking a Calculus I-IV series, an Advanced Calculus series, and a Numerical Analysis series.

AI is also viewed as a progression

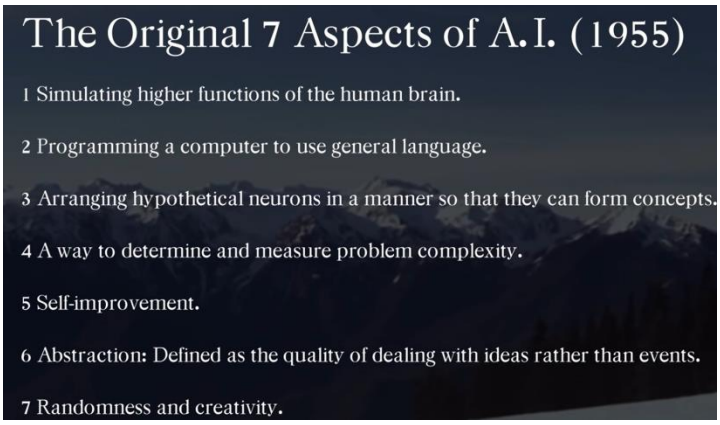
- AI - Artificial Intelligence or narrow AI
    - May be categorized as limited to specific tasks
- AGI – Artificial General Intelligence or strong AI
    - May be categorized as the implementation of large language models, LLMs
        - Able to solve general intelligence tasks
- ASI – Artificial Super Intelligence, the Singularity
    - Here is where AI will surpass man and become the ultimate intelligence & super being
    - This article is addressed to ASI and whether it can become god
        - The definition of which is to create mass and energy from the vacuum of nothingness
    - Let's direct our attention to the ASI linked[23] paragraph titled – Computational advantages
        - Here the article compares computer components, programs and systems to biological processes
            - their statement is computers are far superior in speed, scalability, modularity, memory and multitasking
            - I believe this is due to youth's ignorance and naivety
- As a core team member of the design of 4 computer systems I used this experience and my imagination to lay out a preliminary distributed design of the human body
    - At the core of this idea is physics entanglement property
    - In this design the speed, scalability,.. are all at the quantum level
        - The smallest, the fastest ,the most parallel and the most optimized operations in this physical universe
    - A video of these building block ideas is available at
        - https://isimlab.cloud/imagine-gods-intelligent-design/

Those interested in iSIMLab may go to https://isimlab.cloud/isimlabs-vision/, https://iSIMLab.cloud/home for additional information.

[23] https://en.wikipedia.org/wiki/Superintelligence

Current, summer 2025, AI marketing claims

5/2025 ColdFusion TV release[24] : AI Decoded: Beyond the Buzzwords



Video claims that 'realistically we've completed Steps 2, 4 and 5'.

Step 2. There is a LLM, large language model
Step 4. There is complexity measurement algorithms
Step 5. There is AI node training

Just starting to be researched

Step 7. Randomness and creativity

Initial evaluation

Of note is, this claimed 3 step progress

- has taken 70 years
- is 43% of the easiest goals
    - assuming a linear equation and equal weight for the remaining goals
    - AI will be completed in another 90+ years?
    - That's a joke

Detailed Evaluation

Step 2. Many LLM's[25] are available

pluses

- Can be very useful in creating baseline documents
- After human review some of these documents may be released as is
    - Simple and basic computer programming is done here
    - For new complex systems computer programming will never be AI generated

Step 4. Complexity measurement

- Complexity algorithms are a strength here

Step 5 Self-improvement

- There is a massive amount of finite big data available for AI node training
    - The key word here is finite. After all available data is read AI's learning stops.
        - AI will attempt to supply its own new training data thru random creativity algorithms
            - See Step 7 section below for details

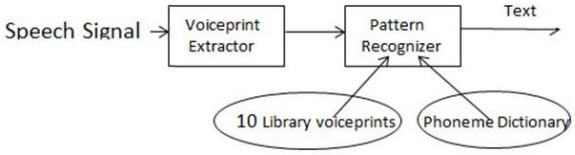
[24] AI Decoded: Beyond the Buzzwords | Watch
[25] https://llm-stats.com/

- AI training mode design has a flaw
    - AI training is designed to improve and fine tune a single node
        - Improvement often involves a design change which spans multiple nodes
            - Many coordinated and synchronous code updates are required here
            - AI currently has imaginative humans who do this part

Step 7 . Randomness and creativity

- A Singularity level random creativity algorithm can NOT exist
- Why?
    - Einstein said it best, 'Imagination is more important than knowledge. Knowledge is limited.'
    - Imagination trumps knowledge and AI has NO imagination

- Let's look at a speech recognition update
- Where the update changes each of the 3 components in the system. 1 the voiceprint extractor, 2. the pattern recognizer and 3. library voiceprints



the

    - 1st let's focus on changing 2 of the components, the extractor and the library
        - In theory (my imagination) let's say it takes 1M random trial and error attempts to find the correct combination of updates
            - When these sets of changes are run thru the system it does NOT work as the recognizer has not been updated to see this new data format
        - That's easy lets add random changes to the pattern recognizer and re-run the randomizer test
            - OOPS
                - immediately after a few thousand RT&E[26] combinations the changes to the pattern recognizer are throwing out a multitude of errors in what we know to be good data
        - Which change do I randomly make 1st, 2nd and 3rd?
            - Is this a chicken and the egg * debate?
    - Complex system updates requires synchronized finely targeted changes
        - Randonality will NOT get you there

- * Chicken and the egg? Paradox
    - Was the chicken or the egg created first?
    - There is only 1 answer here. Both are created simultaneously as written in the bible.
    - Gen 1:25: "God made all sorts of wild animals, livestock, and small animals, each able to produce offspring of the same kind."

Current Conclusion

- Creativity is a gift that comes from Gods imagination Not from AI's chaotic randomness!

[26] Randon trial and error

AI and its social impact

Life is optimized. Only the energy needed to survive is expended. So can we make things too easy for our kids that their minds and bodies turn into mush?

Watching and reading the ubiquitous amount of Internet content here are a few key observations:

1. AI has accelerated the creation and distribution of professional looking scholastic, scientific, technical and medical video articles
    a. Most of these articles are pure opinion pieces where the authors speed to publish and show their production talents are the prime directives rather than a detailed well researched article
        i. Grabbing an audience's attention with visual glitz and surround sound over solid content
    b. In another words the content is often
        i. Insignificant
        ii. Weak
        iii. Off base
        iv. Pure opinion or
        v. wrong and of negative value
    c. Even the so called white papers of the day are watered down audience grabbers rather than serious well thought out and researched subject debates
        i. Excessive number of grant awards for frivolous projects has created a glut of unrelated misleading data

So is AI accelerating the human race to this mush brain state?
NO. Man must always read, observe, evaluate and weight the information around him. Common sense and experience are the best teachers here.

So is AI removing the artist class?
NO. Even though ChatGPT built my sons business logo the artist class will never go extinct.

Oh NO. Could AI lead to its own demise?

Is AI spelling its own doom?
How so?
AI's Singularity must be continually fed new training data to evolve. Since man has been left behind will AI's Singularity create all new training data? Will this inbreeding kill AI?

Or will AI weigh its own data accordingly?

Gods Greatest Gift

The 1st law of Intelligent Design

An entity cannot create an entity greater than itself.

God. Are you infinite? 'I am all there is.'

God. Can you create a duplicate? 'It is as you think. Two entities can NOT both be all there is.'

The belief

God as a single entity of the trinity[27], Father Son and the Holy Spirit, is always.

Jesus is born as a man to live among men and illustrate servitude to God's will.

God's humility, compassion and sacrifice[28] is shown by sending Jesus, the Son of God, to delivery his message and through the shedding of his blood give man a path to eternal life in heaven.

AI Singularity Fallacy?

Man's creation of the Singularity

Can man through computer programming and computers create duplicate upon duplicate Singularity robots?

You might as well ask the 1st singularity robot this question. Calculate for me the last digit of the division of 22 by 7. Let me know when it is done. As you all know very well Pi, π has no end.

AI Training

The training data fed into AI's neural network nodes has been created by man for quick profit is:

- Marketing Lies
  - Propaganda thought control
- All have an Internet voice
  - Garbage stories made up of whole cloth with pretty productions
  - Rare articles of some credibility
- Science fiction
  - Becomes real through CGI graphics
- Scientific and Medical papers
  - Grant scientific data created with wishful conclusions to get more grant monies

AI must weigh the credibility of each piece of information. As mentioned above in the ChatGPT section the answer to 'Who created the physical universe?' did not mention God.

[27] Computer analogy. We access the Target.com system through Chrome which provides a look & feel user interface where we fill out and submit orders. The underlying system that fullfills these orders is hidden and magically the order appears at our doorstep the next day. Jesus is the human religious look and feel for mankind. Jesus provides the link to God and the underlying powers that prayer can unlock from God.

[28] Gen 22:2 God shows his sacrifice of Jesus in the parable about the near sacrifice of Issac

Though the Bible's 1st and most important line is 'In the beginning God created the heavens and the earth.'

AI has clearly filtered and weighted the training data and algorithms to propagandize thought across the Internet population. It is the natural outcome of the hubris NeoYoungBillionaires who:

- are the fastest, smartest, and most successful justified to usurp mans free will and insert their correct definition of what is best for each and all
- The End Justifies Their Means
    - the definition of self, ruthless, merciless, moralless, ... , and megalomania

Conclusion

Man is NOT the authority in the Heavens and the Earth and his published works as the training for AI is a garbage IN and garbage OUT scenario.

The Lineage of Creation/Complexity

The Physical Universe

Man uses Einstein's E = mc^2 squared equation to predict the enormous energy a small amount of mass contains. This is called nuclear power.

Imagine that God is pure energy and slows down a miniscle amount of this pure energy and it congeals to form the mass of the entire physical universe. This illustrates God's unfathomable power; an almost inifinte bronto bronto bronto[29] tons of controlled power.

Non-Life

Inorganic molecules interact with energy and other mass particles but do not replicate.

Non-Life / Life

Viruses/RNA fragments are inert until they enter a living cell where they hijack it's functionality to replicate itself. A parasite if you will.

Life

Organized DNA/RNA organic molecules form the basis for all life. Life defined as the ability to process energy, mass and reproduce.

Simple prokaryote bacteria

Are typically single celled with a rigid cell wall and no organelles such as a nucleus and mitochondria.

Simple eukaryote single cell

A single celled amoeba.

Complex eukaryotes

A multicelled plants, animal or man.

Layered complexity

Physical

At the subatomic quantum level

The chemical and electrical activities of the physical uinverse work at a quantum level executing Einstein's 'Spooky action at a distance', aka quantum mechanics 'Entanglement'. This entanglement property[30] is layer upon layer until we see the sun and the entangled orbits of the planets.

Life

As complex as the physical universe is life layed upon the phyical universe is astronomically more complex.

Intelligence

As complex as the physical universe and life is intelligence is almost inifinitely more complex.

[29] Vresus mega mega mega

[30] At an atomic level entaglement is seen in the electron obits around the nuleus.

AI

In man's hubris the belief he can create intelligence

- by skipping the life layer
    - artifical and in-vitro insemination are NOT the creation of life
- by looking at man's published library[31] for the answers to intelligence
    - is ludricous
        - as this assumes man has created and possesses the secrets to the universe and has written it down

Is it more likely that AI salemen are using overstated marketing techniques to

- create a frenzied gold rush to AI singularity
    - by creating unrealistic business man power forecast savings
    - by collecting $T's of contractual dollars from venture capitalists
- use complexity to hide their deception
    - eg. GPU technology is used to draw and create videos
    - a professional presentation does NOT guarantee a fulfillment of cost savings and optimizations
    - a conversation with an avatar is NOT intelligence. It is a toy!
        - However, a smart avatar can save us the time to query the Internet

Summary Intelligence & Quantum Mechanics

God has created quantum mechanics, life, intelligence and a soul in a small package called man.

AI has created

- Chat avatars the size of large computer rooms, data centers
    - Weighted data pushing a propaganda agenda
- AI Singularity requirements for ubitiqous massive data centers that will upset the energy infrastructure

Conclusion

God created man in the image of God. AI has created a monstrous buffoon.

[31] AI training mode inputs mans created content in the forms of books, articles, audio and videos.