

SPECTRUM





Editor's Note

Intelligence is the last "Machine invention that humanity will ever need to make" - Nick Boston. The Assam Valley Science journal brings to you a segment on Artificial Intelligence. With talks of A.I. being used for traffic lights and A. 9. stimulated creatures demonstrating the evolution of natural intelligence, The Spectrum hopes to enlightenment and help you discover the wondrous and spiffing world of z.l., a reliable necessity or a paradox. The Spectrum team desires to engross and catalyst your thoughts on Artificial Intelligence and its uncountable distributions. Wish you a pleasurable read.

> Adrija Das. Editor in Chief

Whats's Inside

Will Artificial Intelligence take over the World? The Future Jarvis: The A·I of Iron Man I May Not Be Human Powered by Artificial Intelligence Did You Know ? A·I In Your Area: Blank Landscape A·I at Your Service A·I in Vaccine Devlopment Morality: The A·l Credo A Guest in The Neighborhood Humor In A·I Brain Gym Let's Quiz Events And Awards Teacher In-charge's note Credits

Will Artificial Intelligence take over the World?

By-Shuhail Ali Ahmed, 9

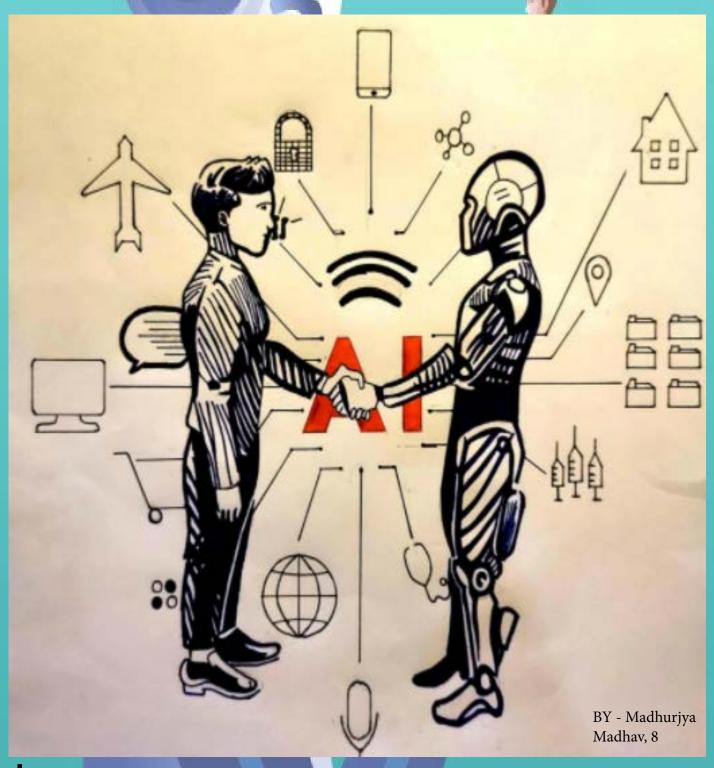
One of the greatest scientists Stephan Hawking once said "AI will either be the best thing ever happened to us, or it will be the worst thing." We, humans, describe ourselves as the most intelligent species on this planet. We have invented and discovered numerous things starting from the wheel to automobiles and now rockets, but are we unknowingly working on something that will soon replace us? Yes, I am talking about Artificial Intelligence.First, let us understand the meaning of Artificial Intelligence. AI is the ability of a computer or robot controlled by a computer to do tasks usually done by humans, for which human intelligence is required. All smartphones, laptops, and other electronic gadgets use a part of AI in them, like Siri, Alexa, Google. We may believe that AI is no harm to us instead of helping us in our day-to-day activities. But we should also know that it can understand our emotions and can act according to them. It has access to our personal and professional details. AI is still in its initial stage and not yet fully developed. Will it be as smart as humans in the future? According to many scientists and researchers, almost 40 to 50 percent of the jobs will get affected due to AI. We may not see professions like Soldiers, Security quards, retail services, doctors in the future as they may be overtaken by AI and humanoid robots. For example, in India, there are 7 lakh cab drivers, who may lose their job because of autonomous vehicles. Autonomous cars today are not a new concept for us. Companies like Tesla are mass manufacturing and selling autonomous cars, which will affect the livelihood of the cab and private drivers. In February 2016 a humanoid robot named



Sofia, developed by Hanson Robotics did her first public appearance at the South by Southwest Festival. Sofia can imitate social gestures and facial expressions. She can also carry on a simple conversation. In 2017 she was given full citizenship of Saudi Arabia and become the first robot in the world to achieve such a status. Hanson Robotics says that Sofia is built, keeping in mind the ethical and social regulations. Sofia has the freedom to talk and express her feeling but she cannot harm any humans. Till date, no such AI or humanoid robot has been built that can fully overtake human strength or ability but, for how long will it be like that. In 2017, Facebook unwantedly had to abandon its project of advance AI chatbots. Apps and websites provide basic chatbots that act as a helpline. Facebook was working on AI chatbots that would be able to express emotions and understand us better. To check their understanding and intelligence Facebook made two AI's talk to each other. They were chatting strangely, after inspecting Facebook's engineers got to know that the bots have created their own language and are communicating with each other. Creating a new language is not an easy task. It can onlybedonebyintelligentspecieslikeus,humans. Elon Musk, whom we refer to as 'the one who is shaping our future', according to him the danger of AI is much greater than the danger of a nuclear warhead, he also says that "AI will be able to do any task assigned to it more efficiently compare to a human". Is it a good thing or we should be worried about it? Well, Elon is certainly worried about it. That is the reason why he is working on a new project name Nueralink. The Neuralink team is working on a chip that will be surgically placed in our brain. It will help us to communicate with our body and other electronic gadgets without moving any of our body parts.

In the future, the chip will be upgraded according to human needs. It will also help us to compete against AI if required. The point being here is that soonerorlater we may have to compete against AI. A part of our society has raised a question, "Is AI really required?" Hundreds of years ago our ancestors have built marvelous architecture like Stonehenge, Parthenon, Pyramids of Gizawithout the use of any AI or any modern-day machinery. But we cannot deny the fact that AI has become a necessity in our day-to-day life. AI is used for traffic controls to ensure safety in both air and road. It is used by Police and Secret Services

to identify suspects. We have enhanced the ability of AI so much that it can even write a movie or a sequel on it on its own. A life without AI would be problematic for us, as we have got used to it. According to most people AI should be devloped for convenience of humans, not as a replacement of humans. In the end, I would like to say that, we being the next generation should be more worried about it because our dream jobs like becoming a doctor, architect or accountant may be replaced by our creation, or instead it will be helping us in our day to day activities.



The Future

By - Krishnam Agarwal , Class 6

I was on my phone and was randomly scrolling. I found a robot that had a feature that it can shoot some kind of ring. The rings were of many different colors and the robot shot them at a great speed. It also had a feature of google assistant that worked on our instructions. I was surprised to see that feature because I never saw any robots having google assistant. These features attracted me so much that I immediately ordered the robot. I was counting the days and one morning I woke up and as usual was checking my messages. Suddenly I saw a message saying that "Your amazon order would be delivered today". That time I got very excited and finally I found the robot at my doorstep. I was assembling the robot and after I finished I kept it properly in its box. At night, when I was going to sleep but suddenly I saw that some light popped up from the robot. I ignored it and went to sleep. The next day, when I was doing my self-studies in the evening, I saw that the robot moved slightly but I ignored it and focused on studying. The next day I was just roaming into my house and helping my mom with some house works, I suddenly saw that the robot came to me. I was shocked that time as anyone was not even touching the remote and it came to me by itself. At this moment it made me realized that how far artificial intelligence has come and how far it will go.

JARVIS: THE A.I OF IRON MAN

ORIGINAL RESEARCH

4

BY -Krishna Agarwal, Class - 9

21st century is the era of technological development. Nowadays, we are using technology from waking up in the morning by the alarm clock, till watching T.V late at night. Nowadays, everyone is contributing to technology in some way and technology is developing drastically. Even small students are learning to code and making some good programs that can help them with their daily life.

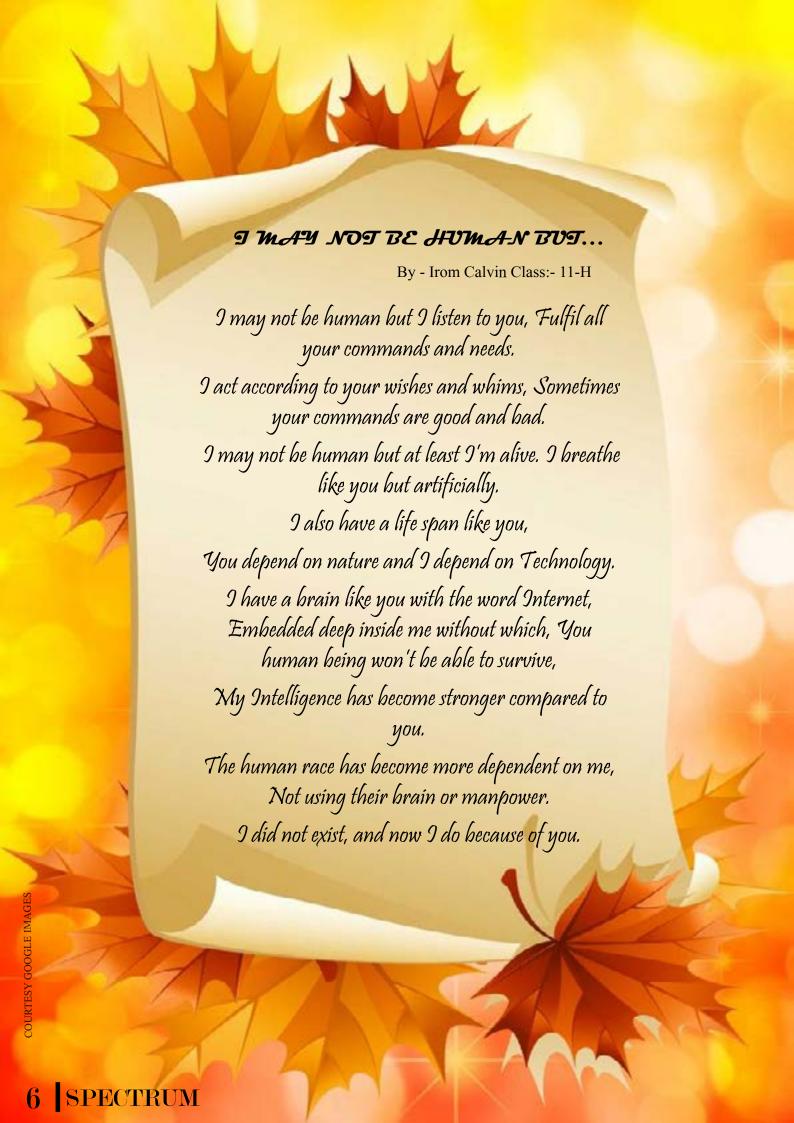
Keeping this in mind I have made a virtual assistant named as Jarvis using Python which can help you perform some tasks just like Google home and Alexa It runs on voice command and it can perform various tasks. It can open applications on your device, read pdfs, search anything you want on Google and many more . Just like Alexa plays songs for you on voice command, it can also paly songs or videos on Youtube. It can also search and read the latest news for you . Adding on it can also control wifi lights or wifi appliances and switch them off or on just on voice command. It can also control non-smart appliance by using hardware like arduino and relay module. It can also send whatsapp messages, emails and also post anything on instagram or facebook on voice command. These were some of the tasks which it can perform There are many more things it can do and it can be used it many ways according to your needs . To know how it actually works you can watch a video using the link below . The video only shows some of the functions it can perform to give you a brief idea Thank You!







Link - https://drive.google.com/file/d/1a2B8o_xQQEdNK725fApeudfLn7dqltAd/view



COURTESY GOOGLE IMAGES

Nowered by Artificial Intelligence

By - Soham Agarwal, 7

Our life in this modern age depends popularity of Artificial largely on computers. It is almost boosted impossible to think about life without discoveries computers. We need computers in Artificial Intelligence has many benefits everything that we use in our daily lives. like-Artificial Intelligence mainly helps So it becomes very important to make usinErrorReductionasthemachineswork computers intelligent so that our lives in a systematic way than humans, which become easy. Artificial Intelligence is the gives us a Higher Degree of Precession. theory and development of computers, Artificial which imitates the human intelligence robots can perform more Laborious Hard and senses, such as visual perception, Work than human beings, as humans speech recognition, decision-making, are subjected to tiredness, fatigue, etc. and translation between languages. But Artificial Intelligence has brought a some disadvantages revolution in the world of technology. Intelligence systems are very expensive has many branches Engineering, to develop and maintain. As we have a Robotics, Machines Learning, and Natural limited amount of data and resources, Language Processing. The developments Artificial Intelligence cannot replicate of Artificial Intelligence were following a the

pretty slow pace but recently the





Intelligence with the evolutionary made in the fields. Intelligence programmed Artificial Intelligence also. Artificial Human Level of Intelligence. Artificial Intelligence is Data Hungry. The more accurate data you feed during the machine learning process, the more accurate your results will be. says Artificial Expert Intelligence can replace all Boring, Repetitive and Labour Intensive work, But Artificial Intelligence can never be Creative Humans..... we as

DID YOU KNOW?

By - Neha Swabnam, 12 H

1. AI IS ALREADY IN MOVIES

Iron Man's "Jarvis," "Vision" from Avengers, or "The Terminator" are all part of the Al world in movies.

2. ROBOTS CAN HAVE CITIZENSHIP

Saudi Arabia has given citizenship to the social humanoid robout "Sophia". She became the first-ever robot to get citizenship of any country in the world. She, or it, is also the first non-human to be given any United Nations title (the Innovation Champion).

3. AI HAS CREATED A BIOLOGICAL CLOCK

We can identify biological age with biomarkers, and these are used to form biological aging clocks. Deep learning has taken this to the next level—it has helped in creating an aging clock that can predict biological age across many different populations so that it can be used on a global scale (unlike non-deep-learning aging clocks)

4. AI IS NOT NEW.

Even though may are hearing about AI in the recent years AI goes way back to the 1950s. Alan Turning is crowned as the father of AI. Back in the day, he invested in a test based on natural language conversation with a machine.

5. MOST AI BOTS ARE FEMALE

Assigning female characteristics to these AI personalities may seem innocuous, but it has some serious implications. In addition to reinforcing gender stereotypes, it could lead to machines taking on morally ambiguous roles that go well beyond scheduling appointments

6. EVEN PROCESSORS HAVE AI

Google'sparent company, Alphabet, has created a processor that works with the help of AI, called the Tensor Processing Unit (TPU). It is designed to make its advertising, search, Gmail, Google Photos, and other services smarter.

7. HUMANS CAN DEVELOP ROMANTIC RELATIONSHIP WITH AI. ...

'Forming romantic and sexual relationships with robots will be widespread by 2050,' Bobbi tells Metro.co.uk. 'The way we experience love and connection today is changing. 'Technology is so intertwined in our day-to-day lives that I have already seen a significant rise in the number of long-distance and online relationships.

8. AI CAN WRITE

A robot wrote an article on an earthquake in California on the Los a

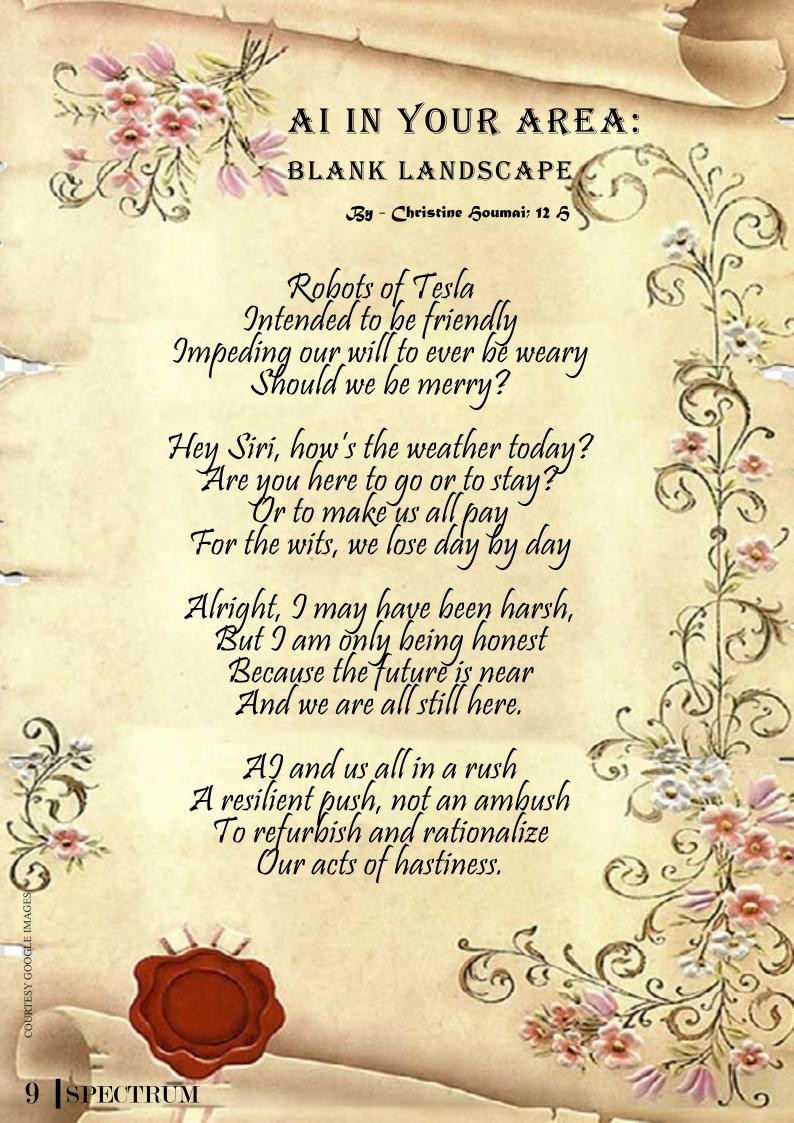
REFFRENCE - https://www.venturit.com/post/fun-facts-about-ai











A. 2. at

your service

By - Simika Rani Borah, 11 S

Genome editing, also called gene editing is a group of technologies that give scientists the ability to change an organism's DNA. These technologies allow genetic material to be added, removed, or altered at particular locations in the genome. Artificial Intelligence can be defined the theory and development able computer systems perform tasks normally requiring human intelligence, such as visual perception, decision-making, and Google's deep-learning program for determining the 3D shapes of proteins stands to transform biology. Genome editing is a discovery that is as delicate as it is powerful. It has long beenatopicofcontroversy, speculation, despite imperfections, excitement, and innovation. The same can be said for Artificial Intelligence, a field that boasts a growing list of interdisciplinary applications. Artificial Intelligence and Genome Technology, when put together, can be very useful. When applied to genomic data, AI time series sequence algorithms appear to be especially effective at detecting functional DNA sequence, By using machine learning algorithms to compare the different gene expression levels in malignant and normal tissue samples of a patient diagnosed with cancer, predictions can be made about which genes have been mutated in that patient's DNA.

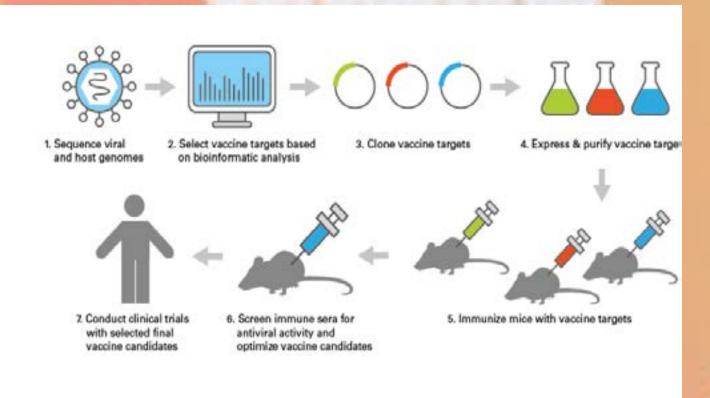
The algorithms would train and make these predictions based on how often a gene is expressed in a malignant sample and compare this to the same gene in a normal sample, adding new information with each new set of data that it is fed. The DNA of each person differs from one person to another. Therefore it is more likely that a cancer-causing mutation in one person's genome will be different from the other person in location and level. Artificial Intelligence can help in identifying and treating genes that have been affected by harmful mutations so that they can be treated in time and cured properly. Products like insulin are developed externally to cure diseases that were difficult to treat before. Artificial Intelligence can help companies develop drugs for rare diseases. Artificial Intelligence is useful in personalized medicine, which requires treatments to be specified to one patient's needs that are different from another. Similar to diagnosing disease using a genomic basis, Artificial Intelligence can help to identify which genes have been affected by harmful mutations so that they can be targeted in gene therapy. DNA repair after editing is another area of potential for Artificial Intelligence usage. Therefore, it can be said that Artificial Intelligenceisalife-protectiontool....

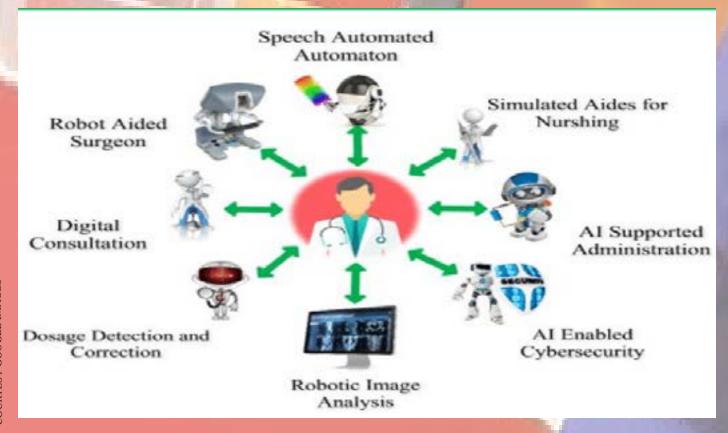
REFFERENCE -

https://www.ysjournal.com https://www.produvia.com https://www.cbinsights.com

A.I IN HEALTH CARE

BY - Neha Swabnam





REFFERENCE - GOOGLE IMAGES

Morality: The A.I. Credo By-Aayat Ali

Hazarika, class 9

"Begin at the beginning," the King said, very gravely, "and go on till you come to the end: then stop." Lewis Carroll, Alice in Wonderland. The thing is when you have something to write about and there is a multitude of things about it you want to express, it is challenging to select something, to begin with. The topic of this article is Artificial Intelligence (A.I.)- Ethical Challenges. From racist A.I. to human extinction, several ethical challeng es will be discussed here, all objects of controversy, criticism, or both.So, where to start with?Of course with self-driving cars are meant for safety. Which tend to cause death. Autonomous cars-They feel like the future, don't they? They are meant for the transportation of individuals under alcoholic influence, among many things, indicating they are the next step towards a safer world, which is why attention needs to be paid to the first recorded pedestrian casualty by an autonomous vehicle. It was the 18th of March, 2018, and Elaine Herzberg was pushing a bicycle across a fourlane road in Tempe, Arizona, when an Uber test vehicle operating in self-drive mode with a human safety backup driver in the driving seat collided with her. She died of her injuries at the local hospital. The automated car was capable of detecting cars and certain obstacles but it could not anticipate a pedestrian in the middle of the road. This was a tricky situation. The legal liability of the responsible party was unidentified because the party responsible for the disaster was unidentified. That's right! They did not know whose fault it was. Was it the fault of the driver, the car company, the government, or possibly, the pedestrian?

None could tell. However, Uber was temporarily the subject of a complaint about the death of Elaine Herzberg. A self-driving car expert with Gartner has called the incident "a complete failure of the system to recognize a seen person who is visible for quite some distance in the frame" and said that "Uber has some serious explaining to do about why this person wasn't seen and why the system didn't engage." However, automated vehicles (AVs) seem to have a firm hold on the automobile industry what with them sitting on \$54 billion in the industry while the German automobile manufacturer, Audi, has decided to spend at least \$16 billion on AVs by 2023. Other companies like Tesla, Waymo, BMW, Mercedes-Benz, Ford, Volvo, and General Motors are also fixated on the appeal AVs hold. Challenges like legal liabilities and system failures of AVs must be tackled before an estimated 33 million of them hit the roads by 2025. However, the fact that A.I. can be racist AND sexist, is in a class of its own. Here are some examples. When it came to detecting gender, facial recognition systems of IBM, Microsoft and Face++ turned out to be biased. The gender of white men was detected more accurately by these systems than that of dark-skinned men while a 2020 study that reviewed voice recognition systems from tech giants like Apple, Microsoft, IBM, Amazon, and Google discovered that they have higher error rates when transcribing the voices of black people than those of white people. Amazon also had to stop utilizing their A.I. hiring and recruitment as the algorithm displayed gender bias, favoring male candidates over female ones. Why? This was because the system was trained with data collected for 10 years that came mostly from male candidates. US Senator Kamala Harris has also spoken about racial bias in artificial intelligence in the year 2020. She spoke about how bias in A.I. could not be detected as easily as a human bias which can be spotted with great ease anywhere. Companies such as IBM and Google have made have made efforts to research and address such biases. One solution is the documentation of data used to train A.I. systems. Experts warn that algorithmic bias is already pervasive in many industries. Almost nobody seems to be making an effort to stop it. However, there are some open-sourced

tools by civil societies that are looking to bring more awareness to biased A.I. can also become a threat to human dignity. This was why Joseph Weizenbaum argued that A.I. technology should not be used to replace humans in positions that require respect and care such as a soldier, a judge, a police officer, etc. However, A.I. technology is already used for telephone-based interactive voice response systems. Let us first understand what Weizenbaum was trying to say vis-à-vis A.I. being a threat to human dignity. He explains that other people require authentic human empathy from people in such positions and they will find themselves alienated, devalued, and frustrated, for an A.I. system would not be capable of simulating empathy. A.I. if used this way represents a threat to human dignity. He was also troubled by the fact that A.I. researchers and some philosophers were willing to view the human mind as nothing more than a computer program, a fact which to him suggested that A.I. research devalued human life. Speaking for women and minorities, Pamela McCorduck countered by saying-"I'd rather take my chances with an impartial computer," pointing out that there are conditions where one would prefer to have automated judges and police without any personal agenda. However, Kaplan and Haenlein stress that A.I. systems are only as smart as the data used to train them because the data of past cases which they are dependent upon if biased towards or against certain groups may cause a miscarriage of justice in future cases over which A.I. would preside or be present at. Bill Hibbard writes that "Human dignity requires that we strive to remove our ignorance of the nature of existence, and AI is necessary for that striving." However, A.I. does not only represent a threat to humans by representing a threat to human dignity; there are other ways, ways by which they may threaten humanity. The weaponization of artificial intelligence is indeed a serious threat, not only to a country, or a continent for that matter; it presents a threat to the whole of humanity. The use of robots for military combat has been questioned by some experts and academics, especially when such robots are given a degree of autonomy. The US Navy has funded a report which indicates that as military robots become more complex, greater attention should be paid to implications of their ability to make autonomous decisions. The fact that a human operator from the U.S. Department of

Defense would always be able to look into the 'black box' and understand the kill-chain process was ensured by the draft of a report recommending principles of ethical use of artificial intelligence by the Department of Defense, published by the U.S. Department of Defense's Defense Innovation Board. A major concern; however, is how the report will be implemented. There has been intensive research within the last decade, in autonomous power armed with the ability to learn with the use of assigned moral responsibilities, the results of which may be used to control unwanted tendencies to assign responsibility to robots when designing future military robots.

There has been a recent outcry concerning the engineering of A.I. weapons that has included ideas of a robot takeover of mankind. A.I. weapons do present a type of danger different from that of human-controlled weapons but this fact has not deterred several governments from beginning to fund A.I. weaponry development programs. The U.S. Navy recently announced its plans: to develop autonomous drone weapons. Similar announcements were made from Russia and Korea too. However, scientists like Stephen Hawking and Max Tegmark signed a "Future of Life" petition to ban A.I. weapons due to the potential of them becoming more dangerous than human-operated weapons. The message these two scientists posted states that A.I. weapons posed an immediate threat and to avoid catastrophic disasters shortly, action is required. The petition includes Skype co-founder Jaan Tallinn and MIT professor of linguistics Noam Chomsky as additional supporters against A.I. weaponry. Physicist and Astronomer Royal Sir Martin Rees and Huw Price have voiced their concerns regarding A.I. and the risk it poses to human dominance. These two professors along with Jaan Tallinn founded the Centre of Study of Existential Risk at Cambridge University in hope of avoiding this threat to human existence, poses to human dominance. These two professors along with Jaan Tallinn founded the Centre of Study of Existential Risk at Cambridge University in hope of avoiding this threat to human existence. So, is A.I. dangerous? Undoubtedly. An A.I. takeover and possible

human extinction is enough proof for that. But is it good too? Again, undoubtedly. This is no longer the Middle Ages where something which is seen as perilous is abandoned or destroyed; this is the 21st century. Its pros and cons are visible in the form of A.I. A rocky and treacherous path will not deter us humans from utilizing all our savage, cunning and sophisticated ways to master A.I. Risks need to be taken to achieve greatness, and we humans, well, we are full of surprises.

References:

https://www.cbinsights.com/research/autonomous-driverless-vehicles-corporations-list/

https://en.wikipedia.org/wiki/Ethics of artificial intelligence#Ethical challenges





A guest in the neighborhood

By - Anukriti Kashyap, 9

John Monet a very rich businessman, just installed the latest AI technology and is showing it to his neighbors. A robot named XB12 can do everything around his house just by a few commands. " Hello I Am XB12 and yOU Are?" His neighbors laugh in amazement "WOW Jhon, this is impressive!!!' Thon said proudly " haha yes it is and you can't even afford it" this made his neighbors feel very bad but they kept quiet about it and one of them said " ok Thon we will leave now. To this John replied ' oh ok hahaha sure go to our own home now while I have LOTS of fun with my new robot". he brags about it to everyone In his neighborhood and makes them feel bad and useless for not having a highly sophisticated and beautiful appliance in their own houses he also sometimes takes the robot out with him for a walk which the robot likes And says " HA HA HA Jhon I Am HaVINg LotS oF fUN ' one of john's neighbors look out the window and say " I HOPE HIS EXPENSIVE ROBOT GETS CRUSHED BY A CAR ON THE ROAD, JHON IS JUST A LOUSY ARROGANT PIG ". In particular, his next-door neighbor max Theodore, a science teacher was one of the victims of his annoying bragging And hated it . " it's really sad that you don't have this robot even though you are a science teacher," John said shamelessly. Max thought " wait WAIT I will teach him a lesson". All night max sat and thought " mmm I need to destroy the robots so it malfunctions and causes a huge mess " at night max went to execute his plan..... hushhh we are entering the house now...... Max quietly went near the robot but as soon as he touched the robot it started to make loud

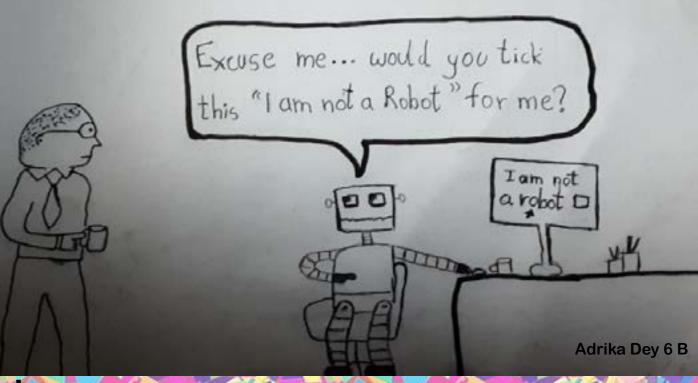


noises " BONK BONK AHHHHHHH YOu ARe ATHiefTHIEF!!! BONK BONK" luckily this did not wake up Jhon, max whispered " OH GOD THIS DUMB ROBOT won't SHUT UP " after the robot became quiet max, began messing with the robot "CLINK CLANK" the next morning Jhon wakes up and says " XB12 make me a coffee" And the robot took the sugar and coffee and threw it at Jhon. "XB12 WHAT'S WRONG WITH YOU" the robot replied, " AHH EHH [honWho iS [HON?" "XB12!! U FORGOT YOUR OWN MASTER " the robot replies nothing and comes near.... and nearer "XB12 SHUT OFF RIGHT NOW" the robot then starts chasing Jhon around the house and then he runs out of his house but the robot is still running behind him "XB12 STOPPP" XB12 the starts shooting lasers "PEWWW PEWWW" John screams " AHHHHHHHHHHHH" Max and all the neighbors looked at him and laughed "HAHAHAHAH it's Mr. Jhon! Look at the way he is running!!" and the Robots' battery finished.



By - Reemeya Methi, 9B

Humor in A.I.



Brain Gym.....Let's quiz

By - Gazal Panesar; 12 HB

1) Artificial Intelligence is about	considered as the
a) Playing a game on Computer	
b) Making a machine Intelligent	a) Mobile
c) Programming on Machine with your	b) Non-Servo
Intelligence	c) Open Loop
d) Putting your intelligence in Machine	d) Intelligent
	7) Which of the given language is not
2) Who is known as the -Father of AI"?	commonly used for AI?
a) Fisher Ada	1
b) Alan Turing	a) LISP
c) John McCarthy	b) PROLOG
d) Allen Newell	c) Python
	d) Perl
3) Select the most appropriate situation for	
that a blind search can be used.	8) A technique that was developed to
a) Real-life situation	determine whether a machine could
b) Small Search Space	or could not demonstrate the artificial
c) Complex game	intelligence known as the
d) All of the above	a) Boolean Algebra
	b) Turing Test
4) The application/applications of Artificial	c) Logarithm
Intelligence is/are	d) Algorithm
a) Expert Systems	
b) Gaming	9) The component of an Expert system
c) Vision Systems	is
d) All of the above	a) Knowledge Base
	b) Inference Engine
5) Among the given options, which search	c) User Interface
algorithm requires less memory?	d) All of the above
a) Optimal Search	
b) Depth First Search	10)An AI agent perceives and acts upon the
c) Breadth-First Search	environment using
d) Linear Search	a) Sensors
	b) Perceiver
6) If a robot can change its trajectory as per	c) Actuators
the outernal conditions, then the rebet is	d) Roth a and a



solve the quiz by clicking the link given , names of top 5 winners will be published in next edition

https://forms.gle/JbiLAnooVUkEm6m8A

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Events and awards

Creativity in chemistry

" Creativity in Chemistry competition" was organized to encourage students to enjoy and engage with the subject. Fostering students' creative thinking in chemistry, aims to motivate, students to produce explanations or ideas that are novel to them and, at the same time, appropriate in the sense that they are scientifically plausible. Following is the winner from upper school-

Soumya Agarwal, class-10

Winners from Lower School are-

Class 6- 1st-Ananya Yadav , Shabahat Sabir Ansari <mark>and Twesha Agarwal</mark> 2nd-Ronit Borah, Kriday Jajodia, Ranuj Duarah, Rayaan Agarwal & Suchan Malik

Link - <u>https://drive.google.com/file/d/14qK0wKHqlFBqKfnyrrfpUlKi6Bk45vc8/</u> view?usp=sharing

Class 7- Anubhav Aryan Kakoty and Ashmit Phukan

Class 8- 1st- Purvi Kejriwal

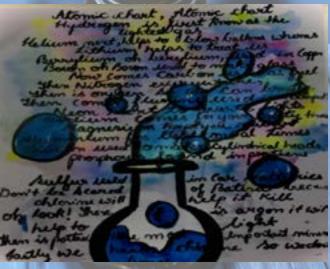
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2nd - Babli Kanwar and Harshita Das

3rd –Ahona Chowdhury, Siddhi Pathak, and Shirin Jaiswal

Consolation-Vibe H. Zhimomi and Hemang Agarwal



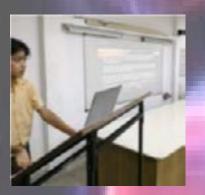


Scince Colloquium 2021

Science Colloquium was observed on 24th Sept from 6:30 pm to 8pm at AVS in which 7 presentations were made based on the project work given to the students. Science Colloquium is a platform where students learn about scientific paper presentation skills along with public speaking skills.

The speakers who took part in this event were:

- 1) Ujjwal Agarwal, 12SA-Topic: "Evolution of the Camera"
- 2) Raahil Hazarika, 12SA-Topic: "Human and Wildlife Conflict in North East India"
- 3) Saumya Jindal and Dimple Deori, 12SB-Topic: "Polymers"
- 4) Vasumann Lohia, 12SB -Topic: "Maths in Action"
- 5) Sanendi Toy, 12SB-Topic: "Genetically Modified Food"
- 6) Kaustav Arya and Anushcka Joshi, 12S -a: "Settlement on Venus"













(Awareness & Conservation of Snakes)

2000

- Resource Person: Mr. Gautam Baruah -

An initiative to celebrate the 'Assam Week' was taken up by the Department of Biology in the Assam Valley School. A wonderfully exciting online invitational talk session on 'Biodiversity in Assam' with special emphasis on the Conservation of Snakes was organized.

Achievement







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Teacher In-charge's note

AI is a technology that is transforming every walk of life. It is a wideranging tool that enables people to rethink how we integrate information, analyze data, and use the resulting insights to improve decision-making. Apple's Siri, Google assistance, Amazon's Alexa, chatbox, and Microsoft's Cortana are digital assistants that have become part of everyday routine, they perform various tasks, from checking the schedules and searching for something on the web, to sending commands to another app. When we begin typing a search term and Google makes recommendations for us to choose from, that's AI in action. AI can imitate any aspect of our life, and hence presents a different and more advanced world to help us! But irrespective of how analysts, stakeholders, and enthusiasts perceive things, the basic importance of artificial intelligence is undeniable. There may be a time when AI-enabled become a new species on planet earth (and maybe in space too). "The Spectrum" team has tried presenting various aspects of AI.; with the hope that our readers are going to enjoy it. We would love to hear from you, kindly share your feedback, to help us learn and grow.

Dr. Alpana Dey

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