



Dr. D. Y. PATIL
EDUCATIONAL FEDERATION
Varale Campus

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Forecast & Quote of the Month

First Year's

INDUCTION PROGRAMME

Day - 01

3/01/2022

This year's induction program for the First-Year Engineering students was organized by Dr. D. Y. Patil College of Engineering and Innovation, Varale from 3rd Jan 2022 to 7th Jan 2022. Hostel arrangements were provided to the students the same day, and all were set for day two of their college life which indeed did begin on a high note. The students along with their parents reported to the college on 3rd January 2022.

Day - 02

4/01/2022

As light symbolizes knowledge and darkness - ignorance, our leaders thus started the induction event with the lighting of the lamp which embarked a new start to the beautiful college life of our dear students. The lighting of the lamp was followed by the Institutional Presentation by our leader Dr. Suresh Mali (Principal of DYPCOEI). After that, a training and placement presentation was conducted by Dr. A. P. Adsul (TPO, DYPCOEI, Head of the AI-DS Department) due to which students were able to clearly understand the scope and bright future which Dr. D. Y. Patil College of Engineering and Innovation crafts for them. Now it was time for some ice breakers, fun events were carried out by Prof. Akshay Bagal and team, which energized the students and attracted them.

The ERP-Activity Information Hands-on Training presented by Prof. Yogesh Shepal, (DCE ERP, Coordinator) gave the students practical insight into the course. Principal, Dr. Suresh Mali which paved the way off to a grand start to the induction program.



Institutional Presentation by our leader Dr. Suresh Mali (Principal of DYPCOEI).



Prof. Ravindra Daspute (Head, Department of Mechanical Engineering)



Placement Presentation by Dr. A. P. Adsul



Our dignitaries for the Induction



Departmental Presentations by Prof. D. D. Mondal (Head of the Department).



Faculties with chief guest Mr. Bhagwan Bhosale (EV, TATA Motors).

Day - 03

5/01/2022

It was then time to kick off Day 3 as the students arrived well in time; to start the event Mr. Bhagwan Bhosale (TATA Motors), Pune conducted a presentation on Career Opportunities - Things to do, he shared his profound knowledge with the students which inspired each one of them to set their goals for the existing career opportunities in the society. Respective faculties led the students with a detailed walkthrough of the campus and attracted all the students. The students were pumped up as it was finally time for the campus visit. The students then were given an hour's break.

Day - 04

6/01/2022

To start day 4 of the Induction program Mr. Kedar Vilas Taskar, took the Communication and Soft skill: Need of Corporate World session his practical view on the same was well received by the audience. The second session was taken by Prof. Ahilya Narsale, DES about Mentoring and Human values, she shared her valuable insights on core human values and mentoring ethics. The students were then given an hour's break. In the light of a great yoga session conducted on day three, it was again time for an astonishing and renovating yoga session which was led by Ms. Sarika Patil and Mr. Sandeep Koli (Yoga Trainer, Manodnya Yoga, Pune). A session was taken by Prof. Vishal Chaugule on engineering mechanics. To end off day 4 on a pleasant note Sports and fun events were conducted by Prof. Rohit Walmiki, Sports Teacher, DYPEF. It was coordinated by Mt. Atharva Kulkarni, DME. Outdoor games like Box-cricket and Dodgeball were played.



Session by Chief Guest
Mr. Kedar Vilas Taskar

Day - 05

7/01/2022

The final day of the five-day induction program had a lot to offer for the students as it unfolded. Introduction to the first-year engineering subjects and syllabus was given by the respective subject teacher of the department which was comprised of three sessions before the break and two sessions after the break. Students could interact and resolve their preliminary ambiguities regarding the subjects. Post which Prof. Ahilya Narsale, DES gave the event feedback and shared her thoughts about the event. A Covid-19 vaccination drive was conducted by Dr. D. Y. Patil College of Engineering and Innovation. To finally end the astounding induction program, fun and Sports events were conducted by Prof. Akshay Bagal and team. It was followed by much awaited prize distribution ceremony.



Yoga session.



Winners of Box cricket.



Box Cricket

Dodge Ball



STUDY SMARTER NOT HARDER

Prof Rushikesh Londhe
(M.Sc Physics)

Dear students
Study Smarter Not Harder

- # Do you ever feel like your study habits simply aren't cutting it ?
- # Do you wonder what you could be doing to perform better in class and on exams?

Many students realize that their high school study habits aren't very effective in college. This is understandable, as college is quite different from high school. The professors are less personally involved, classes are bigger, exams are worth more, reading is more intense, and classes are much more rigorous. That doesn't mean there's anything wrong with you; it just means you need to learn some more effective study skills. Fortunately, there are many active, effective study strategies that are shown to be effective in college classes.

This handout offers several tips on effective studying. Implementing these tips into your regular study routine will help you to efficiently and effectively learn course material. Experiment with them and find some that work for you.



Try these steps for a more efficient and effective study session:

Survey: Instead of reading the entire book, start by skimming the first chapter and taking notes on any headings, subheadings, images, or other standout features like charts.

Question: Formulate questions around the chapter's content, such as, What is this chapter about? What do I already know about this subject?

Read: Begin reading the full chapter and look for answers to the questions you formulated.

Recite: After reading a section, summarize in your own words what you just read. Try recalling and identifying major points and answering any questions from the second step.

Review: Once you have finished the chapter, it's important to review the material to fully understand it. Quiz yourself on the questions you created and re-read any portions you need to.

बदल...

बदल म्हणजे पुढचं पाऊल
बदल , नव्या पालवीची चाहूल.
बदल म्हणजे नवी सुरुवात,
नवी वाट , नवी साथ ,
बदल घडतो , तेव्हा , सारच
बदलतं ;
नव्याशी जुळतं अनोखं नातं.
जुने धागेही अतुट असतात ,
नव्याला बळकटी देत राहतात.
असा बदल ही गरज
काळावरची.
पंखाना नेहमीचीच ओढ
आभाळाची.
असा बदल घडवलाय आम्ही ;
व्हा त्याचे साक्षीदार आणि
साथीदार तुम्ही.

तनुजा वावरे
(FE Div C)



Cultured Meat

भविष्याचे मांस

सागर मनोहर खुळे
(FE Div C)

प्रयोग शाळेत बनवलेलं मांसाहार ?

आजच्या काळात किती लोक शाकाहारी आहेत व किती लोक मांसाहारी आहेत . जास्त प्रमाणात सगळेच मांसाहारीच असतील , म्हणजेच मांसचे पदार्थ लोकांना खाण्यासाठी खूप आवडतात . त्यामुळे मांसाची मोठ्या प्रमाणात गरज भासत आहे . उदाहरण , ' कॉंबड्या ' . दिवसभरात पूर्ण जगात लाखो-करोडोच्या संख्येने कॉंबड्यांना मारले जाते. तसेच अनेक देशात वेगवेगळ्या प्रकारच्या जनावरांना मारले जाते . हे असेच चालू राहिले तर एकेदिवशी सर्व प्राणीजीवन लुप्त होईल व मानव माणसाचे मांस खायला चालू करतील . हयागोष्टीवर काहीतरी तोडगा काढला पाहिजे .

चला, जर तुम्हाला मी विचारले कि कॉंबड्यांना व इतर प्राण्यांना न मारता तुम्हाला मांस मिळू शकते का ? तर अनेकांच एकच उत्तर असेल 'नाही' . पण मी इंटरनेट वर शोध घेतला तर मला कळालं कि आपण प्राण्यांना न मारता मांस बनवू शकतो. डिसेंबर २०२२ मध्ये सिंगापुरच्या शास्त्र ज्ञानांनी ह्यागोष्टीवर उपाय काढला आहे. त्यांचे असे मत आहे कि,

संपूर्ण जगात खूप मोठ्या प्रमाणात कॉंबड्यांच्या पॉलेट्र्या आहेत . एका वर्षात ह्या कॉंबड्या मोठ्याप्रमाणात कार्बन डायऑक्साईड सोडतात एवढे प्रदूषण पूर्ण जगातील गाड्या करत नाही . तुम्हाला माहित आहे कार्बन डायऑक्साईड मानवी जीवनासाठी हानिकारक आहे त्यामुळे Environment Consequences वर वाईट प्रभाव पडत आहे .



#कॉंबड्या पालन करण्यासाठी व इतर प्राण्यांचे पालन करण्यासाठी जगात २६% भाग वापरण्यात येतो , तसेच ३३% भाग cropland साठी वापरतात

आता आपण मुक्या जनावरांना न मारता मांस तयार करू शकतो व जे मांस तयार होते त्याला ' Cultured Meat ' असे म्हणतात .

Cultured meat बनवण्याच्या प्रक्रियेत प्राण्यांना छोटासा मांस उपयोगात घेतात व त्याला Nutritional Liquid मध्ये टाकतात नंतर त्याला Bio-reactor मध्ये मांसाच्या Cell ची वाढ होते व Cell Multiply होतात . त्यामुळे एक Muscle तयार होतो . ह्याप्रकारे आपण आपले सुद्धा मांस तयार करू शकतो . मांसाची फक्त एक Cell वापरून आपण अमर्यादित Meat Generate करू शकतो . एका Cell तुम्ही आयुष्यभर Cultured meat साधारण मांसापेक्षा जास्त पौष्टिक व सुरक्षित असते . कारण ते बनवताना कोणत्याही प्रकारचे Antibiotics वापरतात घेत नाही . म्हणजेच मांसामध्ये infection होण्याचे काहीच कारण नाही ते Control Environment मधी तयार केले जाते . पण जर मी तुम्हाला सांगितले कि , Cultured Meat वर तुम्ही Shift व्हा ! हे lab मधी बनवले आहे तर तुम्ही ऐकाल , Mostly नाहीच कारण तुम्हाला lab मध्ये बनवलेले मांस खायला वेगळे वाटेल , पण जेव्हा मोठ्या प्रमाणात मांसासाठी जनावरांना मारले जाते . त्याच्यामुळे खूप प्रमाणात प्रदूषण होते तसेच मोठ्याप्रमाणात पाणी वाया जाते तेव्हा तुम्हाला वेगळे वाटत नाहीका ! जो पर्यंत कोणती गोष्ट वापरात येत नाही तोपर्यंत लोक तिचा वापर करत नाही .

सिंगापूरमध्ये Cultured Meat चे मोठ्याप्रमाणात Production केले जाते व तिथे विक्रीसाठी देखील परवानगी दिली आहे . जर तुम्हाला Cultured Meat खाण्याची ईच्छा झालीतर तुम्ही सिंगापुरला जाऊन खाऊ शकता कारण आपल्या देशात Cultured Meat वापरात यायला वेळ लागेल , पण नक्की वापरात येईल . Cultured Meat ला भविष्याचे मांस म्हणण्यात काही हरकत नाही . काही वर्षांनी लोक Cultured Meat च्या आधी होतील जसे आता कॉंबड्यांच्या मांसाचे आधी आहेत .

Cultured Meat हे आपल्यासाठी व वातावरणासाठी खूप उपयोगी आहे . म्हणून मला तरी असे वाटते कि लवकरात लवकर Cultured Meat वापरात यावे , तुम्हाला काय वाटते ? हे मला कळवा



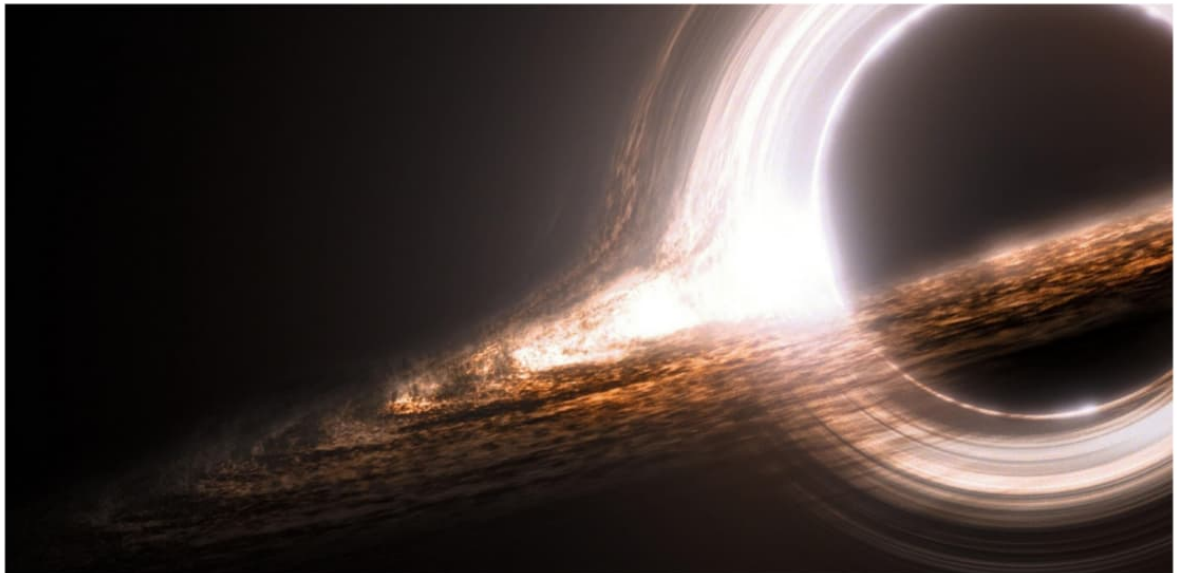
What is Black Hole...?

Sharvary Raut
(FE Div C)

Black holes are the strangest objects in the Universe. A black hole does not have a surface, like a planet or star. Instead, it is a region of space where matter has collapsed in on itself. This catastrophic collapse results in a huge amount of mass being concentrated in an incredibly small area. The gravitational pull of this region is so great that nothing can escape - not even light.

Although black holes cannot be seen, we know they exist from the way they affect nearby dust, stars and galaxies. Many of them are surrounded by discs of material. As the discs swirl around them like a whirlpool, they become extremely hot and give off X-rays,

Black holes come in many different sizes. Many of them are only a few times more massive than the Sun. These 'stellar-mass' black holes form a heavyweight star, about 10 times heavier than the Sun, ends its life in a supernova explosion. What is left of the star still collapses into an area only a few kilometres across.



Objects that fall into black holes are literally stretched to breaking point. An astronaut who ventured too close and was sucked into a black hole would be pulled apart by the overpowering gravity.

DRDO successfully tests Quantum Key Distribution tech between 2 cities.

Rucha Sambare
(FE Div-C)

Quantum Key Distribution tech tested by DRDO successfully between Vindhyachal & Prayagraj



A team of scientists, for the first time in the country, from the DRDO & IIT Delhi successfully demonstrated a Quantum Key Distribution link between two cities.

A team of scientists, for the first time in the country, from the Defence Research and Development Organisation (DRDO) and the Indian Institute of Technology (IIT) Delhi successfully demonstrated a Quantum Key Distribution link between Prayagraj and Vindhyachal in Uttar Pradesh, spanning over 100 kilometres.

Quantum key distribution:-

Quantum key distribution is a secure communication tech method that uses quantum physics to construct a cryptographic protocol. It allows two parties to generate a shared secret key that is only known to them and can be used to encrypt and decrypt messages.

·)Professor Rangan Banerjee, Director of IIT Delhi, also commended the DRDO faculty and scientists involved in this breakthrough for their dedicated initiatives to strengthen the country's technological capability

According to the DRDO, the country has shown a domestic secure key transfer technique for bootstrapping military grade communication security key hierarchy.



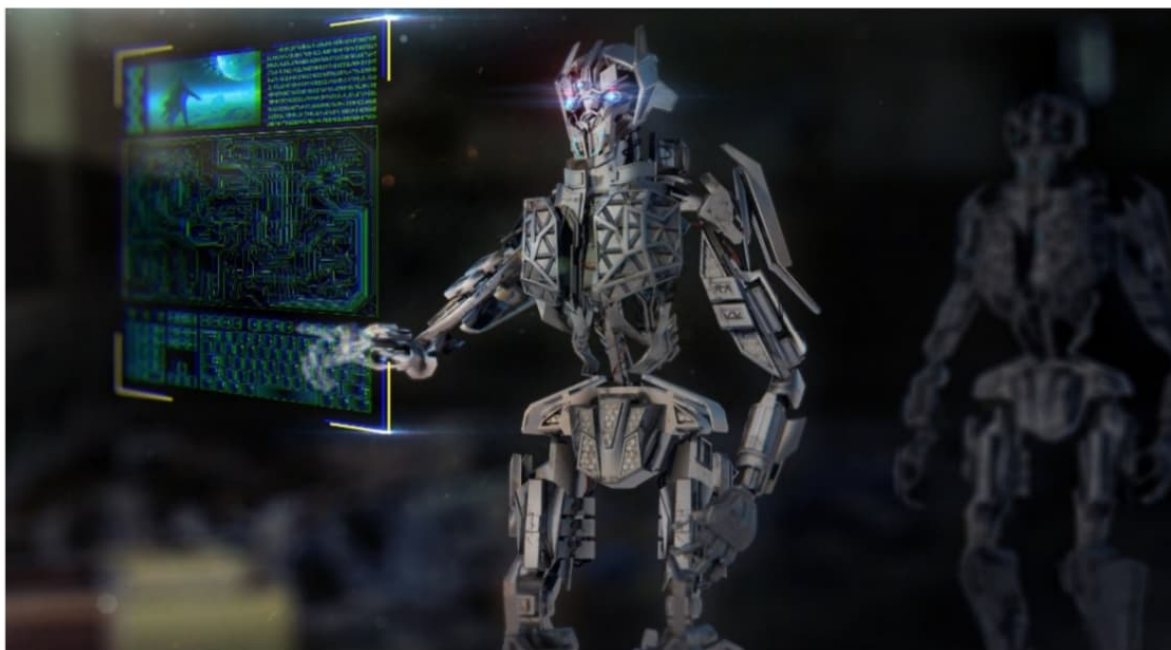
Will AI takeover over Cybersecurity?

Krishna Ashok kondhare
(FE Div A)

The answer is definitely not.

Before diving into the actual topic let us take a look at how AI is evolving. For any industry, there are four major stage which are, Innovation, Early majority, Late majority, Bankruptcy! For now, AI and Machine learning are in the first stage which is the innovation stage although the Innovation and early majority are going hand in hand. This can be simply explained using the money being invested in this industry. \$50.1 billion(approx.) were spent in the research and development for Artificial Intelligence and Machine Learning And is expected to go for and about \$110 billion within these 3 years that is in 2024. So, this is a highly scoped industry considering future aspects. This industry will replace many jobs but create many as well.

Will AI Affect cybersecurity Jobs?

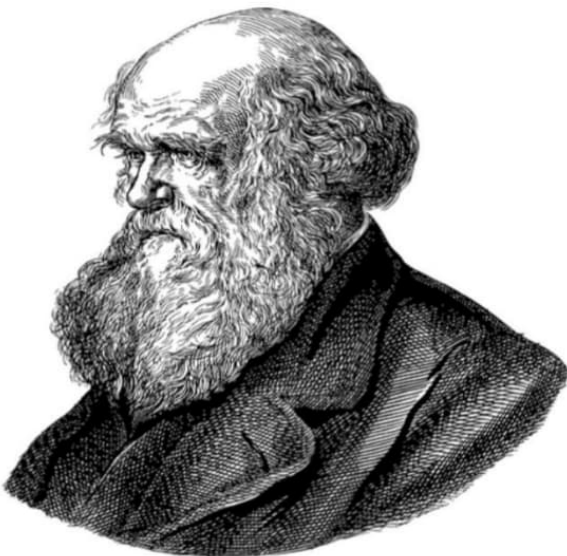


Yes, a Cybersecurity job will be affected but not that much. Cybersecurity jobs are way much advance than today's AI technology. Today, AI works on the binary trees with the coming time this will be improved as well. This question is nothing but the same question which was asked before when Robotics was emerging. On the car production line, many jobs were replaced by robotics. But the job that robotics ate up like tightening a nut with a wrench and which was not even making sense. A cybersecurity job is way different than other jobs as one needs to be more prepared for this than most other jobs. A cybersecurity needs to know a wide variety of knowledge like penetration testing, forensics, OSINT, Networking, etc.

Now get an example each day some zero-day vulnerabilities are found. While AI will take time to find a solution or even get confused over these things. AI works on the binary tree which means they think in terms of 0 and 1. But what if there is something that is not 0 nor 1 then we will need a quantum computer which is not merely possibly all the time. So, Cybersecurity jobs are way safer than other jobs.

Is there a need to Fear an AI takeover?

AI will replace some sort of job but not 100%. So mostly the low skilled job will hit massively. So, if you don't fear levelling up then there is no need to fear AI. Look if you are on a job that is low levelled and need nearly to no skills then you need to fear the most. You need to understand the core concept of Cybersecurity which keeps googling" or can be termed as keep learning. Learning is a must at every minute the changes are happening. The speed at which technology is evolving is great. We need to cope up with that. You need to learn every day new things.



**Charles Robert
Darwin**

If you are ready to level up there is a negligible chance of getting you fired unless you are dishonest with your work. You need to cope up with technology so you could be safer not for this this 'AI takeover' but for your own sake. Today, we are now emerging with the new technology of web 3.0 and now old school player need to adapt to these changes. The theory by Darwin "Fittest of the survival says it all. If you are fit you will survive else you will get vanish and nobody will care except yourself.

Source :- Internet

FORECAST

We at DYPCOEI are Completed Induction Program this month on 3rd to 7th January 2022 with our new First Year Students.

Quote of the Month

*"You have to dream
before
Your dreams can come
true"*

A. P. J. Abdul kalam