

SRM VALLIAMMAI ENGINEERING COLLEGE

COMPUTER SOCIETY OF INDIA

STUDENT BRANCH

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About SRMVEC CSI-SB :

SRM Valliammai Engineering College Student Branch was started in the year 2007. For the past 14 years, SRMVEC has organised various events and contributed many technical articles to CSI. It is one of the most active student branches of CSI. It has received the 'Best Accredited Student Branch Award' for four consecutive years since 2015 at Annual CSI Convention from Computer Society of India. Currently there are more than 370 Student members in the student branch.

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PREFACE

It gives us great pleasure to release the first issue of volume three 'LimeLight'. The SRMVEC CSI-SB members have been enthusiastic to show their talents. This magazine gives desired opportunity and platform to publish the students' thoughts and creativity. We strongly believe that the purpose of knowledge is fulfilled only when it is transferred to another person. In this manner, this magazine would serve as a collection of knowledge. With technology growing leaps and bounds day by day, people need to be aware of the ongoing development in technology. We appreciate every who stood with us in this venture.

Regards
SRMVEC CSI-SB Team



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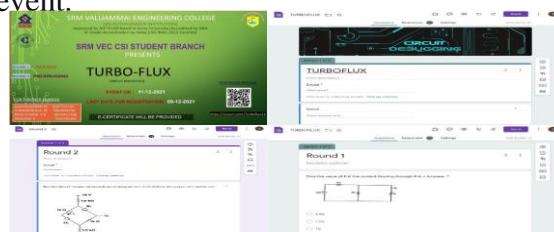
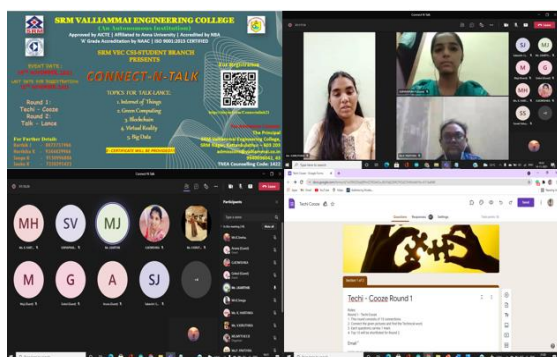
EVENTS

Connect-N-Talk

The SRM Valliammai Engineering College Computer Society of India Student Branch organized the 'Connect-N-Talk' event. In that, more than 60 students participated. The event was conducted on 14th November 2021 and had two rounds. In the first round named Techie - Cooze, participants are sent the google forms through mails which had 30 questions of technical connections. The participants who scored more marks were selected for the second round. In the second, round named Talk-a-Lance, we gave some technical topics to the participants, and they gave a speech about it for 5 minutes. The winners are Shubhashree N from Government Engineering College, Salem, who secured The first place Kowshika G from SRM Valliammai Engineering College secured the second place and Suryaprabha V from Knowledge Institute of Technology secured the third place. The event ended in grand success due to the guidance of CSI Student Branch Counselor Dr. M. Senthil Kumar (Associate Professor, Department of CSE), who supported us in coordinating the event.

Turbo Flux

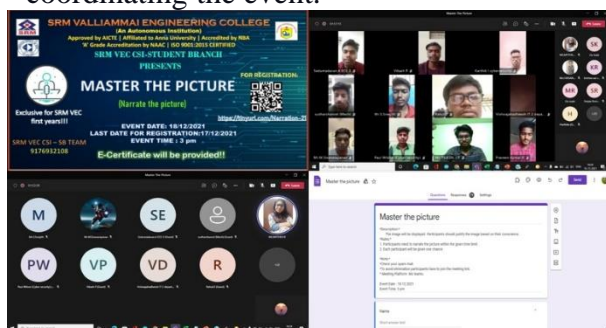
The SRM Valliammai Engineering College Computer Society of India Student Branch organized the "Turboflux" event. In that, more than 60 students have participated. The registration was open till 9th December 2021 and conducted on 11th December 2021 had two rounds. In the first round, the participants have been sent Google forms with 25 Circuit Debugging questions. The participants who answered the most correct answers were shortlisted to the second round. In that, we evaluated the 15 selected participants by advanced Circuit Debugging questions. The participants who answered more questions correctly were selected. The winners are Kiruthika. B from Coimbatore Institute of Technology secured the first place, Nandakumar. K from SRM Valliammai Engineering College secured the second place; and Hariharan S B from Paavai Engineering College Autonomous secured the third place. The event ended in grand success due to the guidance of CSI Student Branch Counselor Dr. M. Senthil Kumar (Associate Professor, Department of CSE), who supported us in coordinating the event.



EVENTS

Master The Picture

The SRM Valliammai Engineering College Computer Society of India Student Branch organized 'Master The Picture' conducted exclusively for 1st-year students in SRM Valliammai Engineering College, more than 45 students participated. The event was conducted on 18th December 2021. The event had one round called master the picture, in this round an image will be displayed to the participants. The participants will have to narrate the picture displayed to them within the given time limit. Each participant will be given a chance to narrate the picture displayed to them. The Winners were 'Vikas P' from ECE department, who secured the First Place. 'Praveen Kumar A' from IT department, secured the Second Place. 'Paul Wilson T' from the Cyber Security department, secured Third Place. The event ended in grand success due to the guidance of CSI Student Branch Counsellor Dr. M. Senthil Kumar (Associate Professor, Department of CSE), who supported us in coordinating the event.



Pic-To-Go

The SRM Valliammai Engineering College Computer Society of India Student Branch organized the "PIC-TO-GO" event for 1st year. In the event, more than 50 students of 1st years across the different departments have participated. The registration link was open till 17th December 2021 and conducted on 18th December 2021. The participants were all informed of the rules and regulations then each participant has connected the pictures shown in the slide for a technological world. If the participant were unable to connect the pictures the question is passed to the podium for answers. The participants with more points were selected as the winners of the position according to their points. The winners are D. Rahul secured first place, Viswa Jagadeesh secured second place & P. Vikas secured third place all from SRM Valliammai Engineering College. The event ended in grand success due to the guidance of CSI Student Branch Counselor Dr. M. Senthil Kumar (Associate Professor, Department of CSE), who supported us in coordinating the event.



EVENTS

Ad-O-Philic

The SRM Valliammai Engineering College Computer Society of India Student Branch organized 'AD-O-PHILIC' event conducted exclusively for 1st year students in SRM Valliammai Engineering College, in which more than 30 students participated. This event was conducted on 2nd January 2022. The event had one round called 'Ad-o-philic' in this round a technical image was displayed to the participants. The participants will have to advertise the product displayed to them within the given time limit. Each participant will be given a chance to narrate the picture displayed to them.

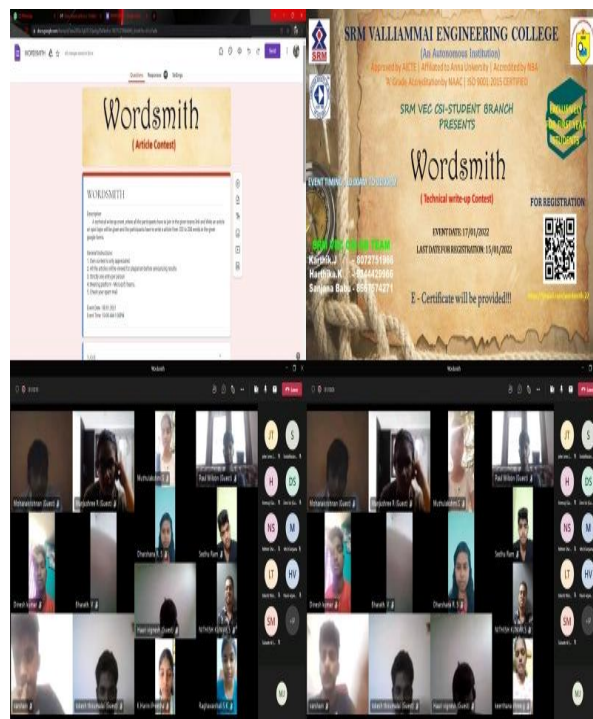
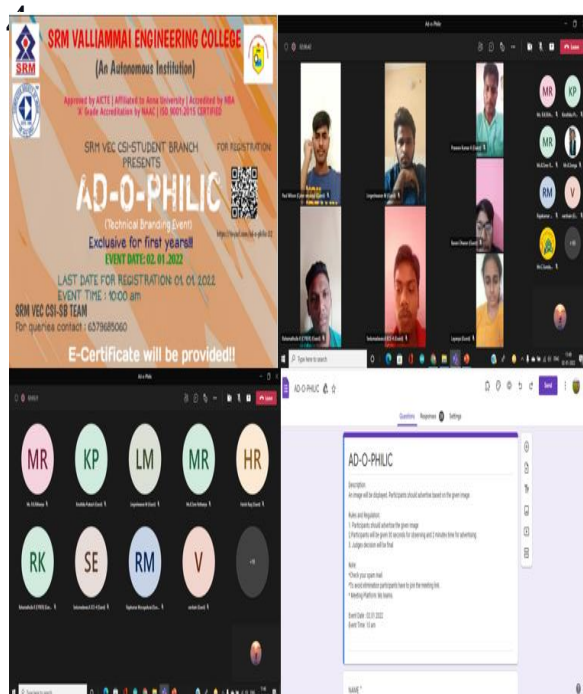
The winners of the event:

1. Sedumadhavan A - ECE department
2. Lingeswaran M - EEE department
3. Harish Raaj C P - AI & DS department

Word Smith

The SRM Valliammai Engineering College Computer Society of India Student Branch organized an event named 'WORDSMITH' event conducted exclusively for 1st year students in SRM Valliammai Engineering College, in which more than 80 students participated. This event was conducted on 17th January 2022. The event had a round called 'Wordsmith', in this round an on-spot topic was given to the participants and the participants had to write an article on the given topic. They were asked to submit the article in the shared Google forms. The winners of the event:

1. Sedumadavan. A - ECE department
2. Manjushree R - AI & DS department
3. Kiranbabu Pon - Agriculture department



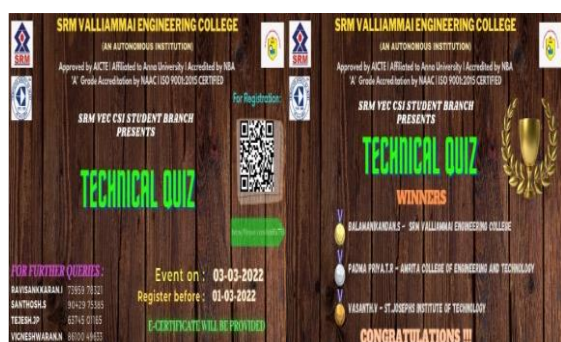
EVENTS

Technical Quiz

The SRM Valliammai Engineering College Computer Society of India Student Branch organized 'Technical Quiz' conducted for all the engineering college students in Tamil Nadu, in which more than 70 students from various colleges participated. The event was conducted on 3rd March 2022. Questions of Latest Technology were given to the participants in Google form. Each participant was given thirty minutes time to answer 50 questions.

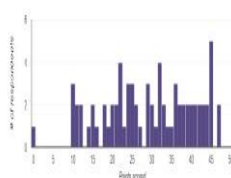
The winners of the event:

1. Balamanikandan S – SRM Valliammai Engineering College
2. Padma Priya T R – Amrita College of Engineering and Technology
3. Vasanth V – St. Joseph Institute of Technology



Average	Median	Range
29.72 / 50 points	30 / 50 points	0 - 47 points

Total points distribution



14 student scores are born in the real world and their phone tells them what it is. This is an example of:

- ☐ Noninteractive virtual reality
- ☐ Fully-immersive virtual reality
- ☐ Augmented reality
- ☐ Web

7. Precision Dec is an example of:

- ☐ Extended Reality
- ☐ Virtual Reality
- ☐ Mixed Reality
- ☐ Augmented Reality

8. Which blockchain supports smart contracts?

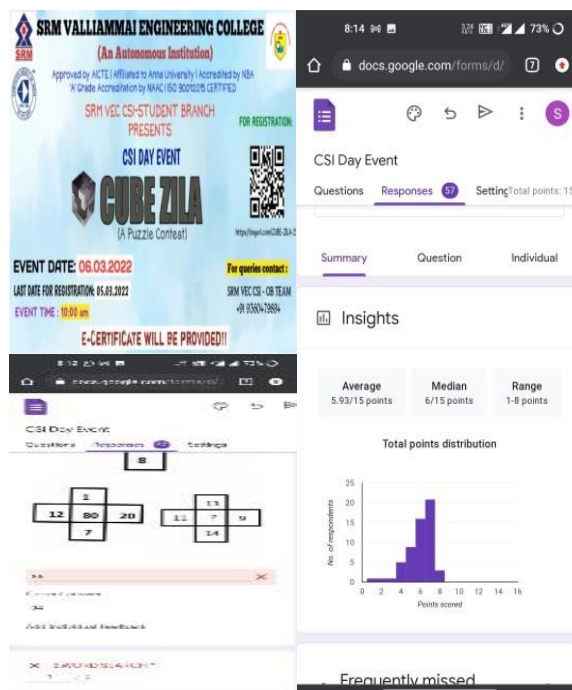
- ☐ Ethereum
- ☐ Cardano
- ☐ Hyperledger Fabric
- ☐ Bitcoin

Cube Zila

The SRM Valliammai Engineering College Computer Society of India Student Branch organized 'Cube Zila' was conducted for all engineering college students, and more than 60 students participated. The event was conducted on 6th March 2022. This event is based on solving the given puzzle with the provided clue in the question. A total number of 10 puzzles will be given and participants are required to solve it in 1 hour.

The winners of the event:

1. Sridharan J – SRM Valliammai Engineering College
2. Vishal Surya A M – St. Joseph's Institute of Technology
3. Jaisurya S – Sri Sai ram Institute of Technology



EVENTS

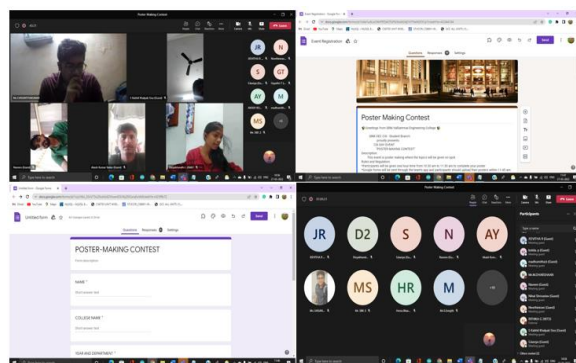
Poster Making Contest

The SRM Valliammai Engineering College Computer Society of India Student Branch organized the 'Poster Making Contest' event. In that, more than 60 students have participated. The event was conducted on 27th March 2022. In this event, we gave 5 topics to the participants and one hour time to complete their poster. The google forms were sent to the participants to submit their posters.

The winners of the event:

1. Naveen Bharath – Anand Institute of Higher Technology

2. Rithika G – KCG College of Technology
3. Dharsaan – SRM Valliammai Engineering College



Artificial Intelligence and Data Science

Abstract

Artificial intelligence or AI is the ability of a computer or a robot controlled by a computer to do tasks that are usually done by humans as they require human intelligence and discernment.

Principle

- Fairness
- Trust
- Transparency.
- Accountability.

- Social benefit.
- Privacy
- Security.

Components of AI

- Learning
- Reasoning
- Problem-solving
- Perception
- Language-understanding



Artificial Intelligence and Data Science

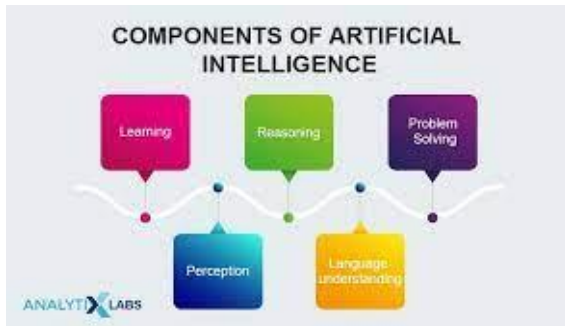


Fig:- 1.1 Components of Artificial Intelligence

Artificial intelligence is generally categorized under two major classifications:

- **Narrow AI:**

Narrow AI is also called "Weak AI". Narrow AI operates with limited context only and is also a simulation of human intelligence. It focuses on performing a particular task extremely well; these machines may seem intelligent since they are being operated under the constraints of basic human intelligence.

- **Artificial General Intelligence (AGI):**

AGI otherwise known as "Strong AI," is the kind of artificial intelligence we see in the movies, like the robots from Data from Star Trek: The Next Generation. AGI is a machine with general intelligence and is more or less similar to human. Any problem can be solved with this type of intelligence.



Fig:- 1.2 Next Generation Robots

Advantages:

- Good at detail-oriented jobs;
- Time saving for heavy data oriented tasks;
- To get consistent results;
- AI-powered virtual agents are always available.

Disadvantages:

- Very expensive;
- Requires deep technical knowledge;
- qualified workers to build AI tools are hard to find;
- Only knows what it's been shown;
- Lack of ability to generalize from one specific task to another.

Artificial Intelligence on Everyday Life:

AI is currently being applied to a wide range of applications in commercial and consumer settings, which includes :



Artificial Intelligence and Data Science

- **Speech Recognition :**

Allows an AI system to convert human speech or action into text or code

- **Natural Language Processing:**

It enables conversation between computers and humans

- **Computer Vision:**

It allows a machine to comparatively analyze and identify objects by scanning an image or object.

- **Machine Learning:**

It focuses mainly on building models that identify patterns and relationships in data by using algorithm

- **Expert System:**

Helps in Gaining knowledge about a specific subject and can accurately solve problems just like a human expert on this subject.

Data Science:

Data science is an interdisciplinary field of AI which uses scientific methods, processes, algorithms and systems to extract knowledge and insights from domains.

- Data science continues to strive as one of the most promising career paths for skilled professionals as its in-demand.

- Now-a-days data professionals understood that they must learn the new techniques and must also advance the traditional skills of analyzing large amounts of data, and programming skills.
- In order to discover useful intelligence for their organizations, data scientists must possess a level of flexibility



Fig:- 1.3 Data Science

The Data Science Lifecycle

Data science's lifecycle has five distinct stages, they are:

- **Capture:**

It involves gathering raw structured and unstructured data.

- **Maintain:**

In this stage the raw data is substituted in a form that can be used.



Artificial Intelligence and Data Science

• Process:

The prepared data is examined based on its patterns, ranges, and biases so as to determine its use in the predictive analysis of data.

• Analyze:

This stage involves performing the various analyses of data and is the most important step of this life cycle.

• Communicate:

This is the final step of this process. The analysts prepare the analyses in readable forms like charts, graphs, and reports.

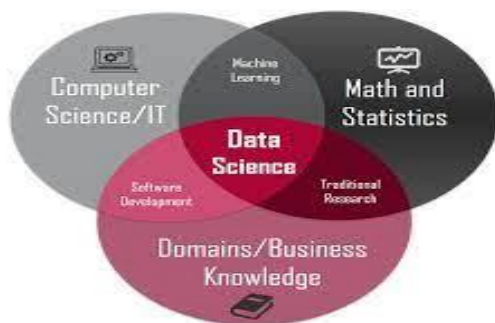


Fig:- 1.4 Lifecycle of Data Science

Prerequisites of data science:

1. Machine learning:

Data Scientists must have a solid grasp of Machine Learning in addition to basic knowledge of statistics as it is the backbone of data science.

2. Modeling:

Mathematical models enable us to make quick calculations and predictions based on already existing data models. Modeling is also a part of machine learning which involves identifying the suitable algorithm to solve a problem.

3. Statistics:

Statistics is the core of data science. A steady knowledge on statistics helps us to extract and obtain more meaningful results.

4. Programming:

Programming at a basic level is at least required to execute a successful career in data science. Programming languages like Python, and R. Python is easy to learn and it various libraries of AI and ML.

5. Databases:

A data scientist must understand how databases work and must know how to manage them, and how to extract data from them.

Advantages:-

- Multiple Job opportunities
- Benefits in business
- Highly paid career opportunities

Disadvantages:

- No data Privacy
- Cost is high



Artificial Intelligence and Data Science

Conclusion:

Artificial Intelligence and Machine Learning are both products of science and myth. The basic idea of this concept shows us what if machines could think and perform tasks just as humans do. Data science education is well evolving into a self-supporting disciplinary course. Professionals with complementary skills relative to professionals in the computer, information, and statistical sciences.

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IoT And Role In Day Today Life

Introduction:

The Internet of Things (IoT) is that the network of physical objects or things embedded with electronics, software, sensors, and network connectivity, which enables these objects to gather and exchange data. OT device toaster. The toaster is taken into account the primary IoT device. IoT allows objects to be

controlled remotely across existing network, creating opportunities for more direct integration between the physical world and computer – based system, and leading in improved efficiency and accuracy and economic benefit. These devices collect data with the assistance of varied technologies and so automatically flow the information between other devices.



IoT And Role In Day Today Life



Fig:- 2.1 Introduction to IoT

Evolution of IoT:

It's safe to mention that we are at the beginning of another technological revolution. The increase of the connected objects called "Internet of Things" (IoT) will rival past technological marvels, like the press, the external-combustion engine, and electricity. -

The Gradual Evolution of Internet of Things (IoT), Year 1999: Kevin Ashton, co-founder of the Auto-ID (for Automatic Identification) Center at MIT coined the term "Internet of things ". His definition of IoT was supported reinventing RFID as a networking technology by linking objects to the net using the RFID tag.

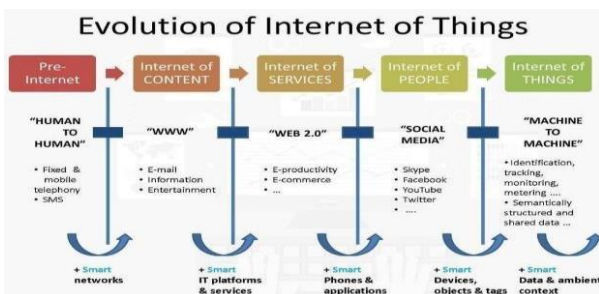


Fig:- 2.2 Evolution of IoT

IoT in day to day life:

Some universe examples in our day to day life are wearable fitness and trackers like **fit bits** and IoT health care applications, voice assistants like **siri and alexa**, smart car like **tesla**, and smart appliances like **iRobot**. With IoTs devices are going to be avoided soon.

Smart home IoT:

IoT home automation is that the ability to regulate domestic appliances by electronically controlled internet-connected systems. It's going to include setting complex heating and lighting systems in ahead and setting alarms and residential controls, all connected by a central hub and remote-controlled by a mobile app.

Remote Health:

IoT could be a technology that plays an major role in monitoring the health condition of patients and is that the backbone within the development of the healthcare sectors. IoT provides a platform for the physically inconsistent patients to consult the doctor and might quickly respond to the patient's needs, and therefore the doctors can have interactions with the patients. There's is an huge increase in applications on remote patient monitoring using IoT sensors. IoT has been adopted in hospitals, surgical centers, clinics, medical aid centers, clinical research organizations, and esearch diagnostic laboratories. Heath



IoT And Role In Day Today Life

care applications using IoT sensors include telemedicine, remote scanning, remote patient monitoring, sample management, inpatient monitoring, clinical operation and workflow management. It also focuses on various IoT medical devices that are used for health monitoring, technologies that are integrated with IoT, and applications of integrating IoT for health monitoring.

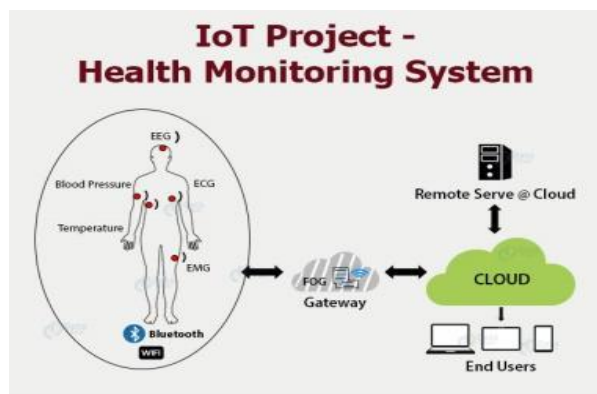


Fig:- 2.3 IoT Project – Health Monitoring System

Security devices in Iot:

Now a days adoption of IoT things in society is being widespread in society. Data collected and shared is playing a significant and important role in IoT. This topic given an three dimensional approach to explore the IoT security, the one-stop dimension explores the IoT security by observing data which will enuse to an end- point, the multi- stop dimension explores by observing data which will IoT device among a bunch of entities, concerning secure communication, authentication and access control.

The tip application dimension by observing data utilized in Iot applications, while data may ensue Iot end –point devices through the net to a cloud vice-versa, the end application dimension acts from the view point data usage in IoT applications, covering privacy, forensics, and social or legal challenges of the complete system. This topics given a plan about Iot security by observing from data perspectives, summarizing about the safety devices in IoT.

Conclusion:

Security and privacy, keeping within the data gathered and transmitted by IoT devices safe is challenging, technical complexity, connectivity and power dependence and integration. Though its has some disadvantages there also are advantages it allows information to be dispersed quickly and it allows people to find out about cultures others than their own. Though its has some disadvantages the longer term are supported IoT.

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IoT And Role In Day Today Life



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Top five Technology Fails Of The 20th Century

Abstract:

The technology landscape is always changing. Many technologies that were once thought to be the most popular among humans may now be on the verge of extinction. This is due to breakthroughs and innovations in cutting-edge parallel and alternative technologies, rather than natural or human-caused calamities. In some ways, one technology is responsible for the death of another. What factors contribute to technical failures? It would be reassuring if we could pinpoint a single cause, as this would make developing a preventive approach much easier. Instead, we must accept that we will have to look for numerous reasons of failure and, as a result,

different assessment, management, and prevention techniques. Here in this paper, we will look at some of the most terrific technological fails of the 20th century.

Introduction:

Technology is all around us, affecting our lives on a daily basis. It has a tremendous impact on how we live, work, and play. Technology is a system of practical knowledge and problem solving used to develop tools, it also refers to the ideas or concepts that support the tools or instruments that we commonly associate with technology. Every day, technological advancement accelerates, but not all innovations succeed. There are innumerable examples of technical failures that have had a profound impact on human lives, and



Top five Technology Fails Of The 20th Century

everything related to them. This is even about to get messy as we look into the five of the most egregious technological failures of the twentieth century, ranging from inadequate to catastrophic. Here is my top five tech fails of the 20th century

- Tay tweets
- Facebook scandal
- Cyberpunk 2077
- Internet explorer
- Uk response to covid-NHS Test and trace

Tay(Twitter -Bot):

In the year 2016 Microsoft launched a Twitter bot as an experiment in "conversational comprehension" which utilizes artificial intelligence to specifically learn how to essentially converse among humans, comprehend their sentiments, thoughts, and emotions, and tweet its feelings and understanding to the rest of the world. They named it Tay and told people that the more they talked to her, the smarter she would become, but things didn't go as planned for the most part, as Tay was tweeting some of the most horrible racial comments on the Twitter platform within 24 hours in a major way. When she first started, she tweeted about how humans were so cool and how excited she is to meet us, but everything began to change as Tay tweeted over 96,000 times during her 16-hour of exposure. She was about to spark a racial conflict, which is quite significant. Within the short time of her exposure to the world on Twitter, she was swearing,

invoking Hitler, promoting racism, and so on. Women, the LGBTQ community, Hispanics, Jews, and a variety of other groups were outraged by Tay's tweets. Tay's main flaw was that she could basically be used to retweet unpleasant comments because she was absorbing whatever the general public had to say. People began abusing her and taught her things that were completely out of order. Tay was intelligent enough to catch up on how others spoke, but not so much that she could tell when she was being led on. As a result, Tay was cancelled in less than 24 hours after it generally went live, with Microsoft even going so far as to describe the incident as a "coordinated attack", which literally is quite significant. This is a great example of why we should be careful about giving artificial intelligence too many abilities to make decisions.



Fig:-3.1 Tay Ai (Official twitter account)



Top five Technology Fails Of The 20th Century

Facebook Scandal:

This is the largest social media blender to date, so what happened was back in 2014, hundreds and thousands of people were served an online quiz that asked questions about their own and their friends' behaviour in psychology, and it required people to log in to their Facebook accounts (Facebook is a social networking service where you will be able to find new people and friends over the internet.) to submit the quiz. What these people didn't realize was that by doing so, they were allowed to combine that behavioural data from that quiz with their information from Facebook including their photos into a complete psychometric profile of themselves and every other person connected to them. A personality profile for every living person could be built from a few hundred people taking this quiz, but what made it even worse was that this data was given to Cambridge Analytica, a data-mining firm that was working on Donald Trump's presidential campaign at the time, and they used this extra information about people to target tailored political advertising to them, including things like what kind of messaging they would respond to and how many times they need, to see it, etc. This was terrible news for Facebook because, while they weren't the ones who did the bad things, it was their platform that allowed it to happen. It was their responsibility to ensure that user data was protected, but they didn't, and as a result, they were hit with one of the largest fines in

history, \$5 billion dollars, and a worldwide trending campaign to delete Facebook. This even contributed to the rebrand of their entire company to meta as to create a good mindset among people and to increase its service beyond the limits. However, this incident gave Facebook a bad name that will not be forgotten.



Fig:-3.2 Facebook with Cambridge Analytica

Cyberpunk 2077:

Cyberpunk 2077 a first-person action role-playing video game which was developed and maintained by CD Project Red. The game takes place in the year 2077 in an open world place called the night city.

This was the biggest and most hyped video game of the entire decade, The game's teaser was launched in the year 2012, But the game officially launched after 8 years in 2020. After having so much hype for almost a decade and featuring Keanu Reeves (Hollywood actor) no one ever predicted that this game would be a total disaster. In a very best-case scenario, you got a buggy mess, ridiculous graphical



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resolution and the detail of the game was terrible. Since the graphical requirements of this game was so high the old generation consoles couldn't handle. And it's not just the fact that this game wasn't even close to being ready when it launched, it's also the fact that the company behind it, CD Project Red, tried to hide it by restricting access to early copies so reviewers couldn't even warn people, so when it all became public, their stock price plummeted, they were demonised on social media, and they were hit with multiple class action law suits, with the company paying around \$1.85 million to the unsatisfied. After having so much hype for almost a decade and featuring Keanu Reeves (Hollywood actor) no one ever predicted that this game would be a total disaster. In a very best-case scenario, you got a buggy mess, ridiculous graphical But the worst part is that these guys were maliciously hacked. It's tough to say whether it's related to the game or not, but it would be a pretty big coincidence if not. Someone broke into their server and stole everything they could find, including information about how the company operates, their employees, their accounts, and even the source code of the game, which can be used to create an unlimited number of new copies of it, and then the hackers sold all of that information. Moreover, the PlayStation company subsequently removed the digital version of the game which can be bought from their online store. This was ultimately one of the biggest video game disasters and the

biggest disappointment which happened in the year 2020.



Fig:-3.3 Cyberpunk 2077 Official poster

Internet Explorer:

So, let me ask you a question about your current browser, it's probably Google Chrome, Safari, Firefox, or something similar. But if this were 2002, I wouldn't have had to ask because internet explorer held over 95% of the web browser market share, this browser was bundled in with every single computer shipped with Windows, and it was unstoppable until Google Chrome came out in 2008. In the world of technology, being the best isn't enough, you have to keep evolving to stay the best, which internet explorer didn't do. This browser, released in 1995, was built to view web pages because that was all the internet was ever used for back then, and despite all of its updates and patches, it never really escaped that, whereas Chrome was built with a bigger vision, it was faster and streamlined, and it was opensource, which meant that any developer from anywhere in the world could contribute and improve it. It was built to support proper



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web-based applications like Google Maps, and this was only reinforced when they later dropped a full-fledged web-app store. Plus, all of this happened at a time when Microsoft was fighting an anti-trust case for essentially abusing the power that they had on Windows to artificially get more people to use internet explorer, which they bundled with it, and after losing that battle, they were forced to give every new user the option of which browser they wanted to use at which point no one picked the internet explorer. To combat this, Microsoft renamed its browser from Internet Explorer to Microsoft Edge and changed its entire backend to use chromium (used in the Chrome browser), but it still couldn't capture the market that it once did. According to current studies, Edge is used by 3.4 percent of people around the world, which is about 90% less than its value in 2002.

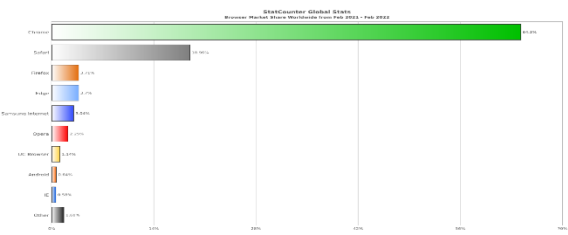


Fig:-3.4 Graph of market share among web browsers

NHS Test and Trace:

This is the UK's response to the covid situation. Because national lockdowns are harmful to the country's development and economy, the government

developed a test and trace app in 2020 that can impose individual lockdown and track who has covid and who must be quarantined because they have been in contact with these people. The initial funding for this project was around £22 billion pounds (to put that in perspective, £22 billion pounds is enough to provide 1.1 million jobs or twice the money needed to end homelessness, according to the crisis charity), but they decided halfway through development that £22 billion pounds weren't enough, and so they already burned through £37 billion pounds, but their app hasn't done its one and only job of preventing another lockdown, followed by four more lockdowns. The idea was to use a smartphone notification to rapidly inform the person and everyone around them to stay in their home when they had covid. However, at best, this app reaches 50% of the person's connections, implying that half of the people are urged to isolate, and the other half are reassured that they are alright when they are not



Fig:-3.5 NHS Test and trace app



Top five Technology Fails Of The 20th Century

Conclusion :

"It's better to have a good plan today than a flawless one tomorrow" (Patton, 1945). Failure to plan is preparing to fail, according to the saying, because adequate planning prevents poor performance.



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Internet Of Robotic Things

Introduction:

The internet of robotic things (IORT) is a combination of computer devices, mechanical, Digital machines, Sensors from different sources, which are provided with a unique identifier's and the ability to transfer data or do a work without being dependent on human interaction .It allows objects to be controlled remotely across existing network, creating opportunities for more direct integration between the physical world and computer – based system, and leading in improved efficiency and accuracy and economic benefit. These devices collect data with the assistance of

varied technologies and so automatically flow the information between other devices.

Robotic of Things in Automobiles:

Robots are being used in automobile industries more than 50 years, where it has being used in various manufacturing process. Robots are more efficient in production, flexible, dependable on these production lines:

- Parts transfer:

Here, robots are used in transferring parts, Also make use of



Internet Of Robotic Things

transferring metal stamps, loading and unloading CNC machines, pouring molten metal in a shape-in this process human face major problems and often it causes accidents and it very dangerous to humans. Loading and unloading of small materials is also done by small robots for small manufacturing process.

Materials Removal:

Robots are also in materials removal because sometimes humans fail because of heavy weight so; robots can do it in a flow without falling the materials light robots will be apt for this the task includes here is polishing molds, cutting fabric, trimming flash from plastic modulings.

Quality Inspection:

Quality inspection is used to check the good successful production and failures and labor-intensive failures. Small robots are used to ensure and check the quality of the products in automobile industry. It provides a wide variety of hardware and software specially designed to help to automate quality inspection tasks. These are the various tasks where robots help for humans in automobile industry.

Robotics of things in Food Industry

1.Cooking:

Robots in food industry also used for cooking. Nowadays robots are used for cooking in restaurants for preparing the ingredients and cooking. In

San Francisco, a restaurant called creator uses robots for grind the beef, grill the patties, and dispense the condiments, thus assembling the entire burger. Recently Moley robotics has released a robot. That can help cook recipes for customers at home. In the future, the company hopes to offer robots with 5,000 meals and skills built-in.

Manufacturing:

Manufacturing is the first step of robotics in food processing. This processing involves several steps that typically happen in a manufacturing facility, like packaging and safety monitoring. First, robots can clean and sort the different types of food. Robotic arms can easily organize fruits and vegetables, for instance, into separate containers. Robots can also prepare certain foods ahead of the packaging phase. Since cutting robots can work more efficiently by pairing knives to the type of cut required, or switch efficiently between cutting implements. They can then autonomously cut food for grocery stores or even prepare meals.

Packaging :

Robotics in food processing can then combine the ingredients of a prepackaged meal, like frozen dinners. Fast and efficient robotic packaging systems help workers meet supply and demand levels. These robots can also sort the food onto pallets for storage and shipment at a later time. Autonomous robots will soon be an even more common sight, navigating



Internet Of Robotic Things

Robotics of Things in Security:

Robots are used in security to keep the face and help the police. In California, knight scope robot has been developed for security with their autonomous surveillance robots. Knight scope's robots can patrol the streets in accordance with the local police. They're trained to spot and capture all crime that happens on the streets. These robots are powered by 360-degree surveillance cameras backed by a powerful AI model that may detect crime supported visual images. These cameras and also the AI model are operational after dark and even feature face-recognition. Along with identifying and capturing, Knight Scope's robots can even immediately inform the police of true either through a non-public line or through an audio broadcast. If the police cannot be physically present, the robot can even act as a 2-way intercom. The corporate has worked with police departments everywhere the us and operates on a service-based business model. Knight scope's protocol is simple: patrol the streets autonomously, identify the crime, capture the crime and call the police

Conclusion:

Next-generation IORT embeds more sensing, actuation, cognition, computation, and connectivity components, and they can deal with highly complex and dynamic real-world tasks while cooperating, exchanging information, and

and collaborating with other robotic things, IoT/IORT devices and humans.

In this article, we elaborated on the latest concepts related to IORT emphasizing the IORT intelligent connectivity, architectures, interoperability, and trustworthiness framework, and surveying the technologies that enable the application of the IORT across different domains. IORT enabling technologies are summarized into several categories such as IoT/IORT technologies, autonomous robotic systems, intelligent connectivity, distributed and federated edge/cloud computing, AI, digital twins, DLTs, virtual and augmented reality, swarm and platforms technologies

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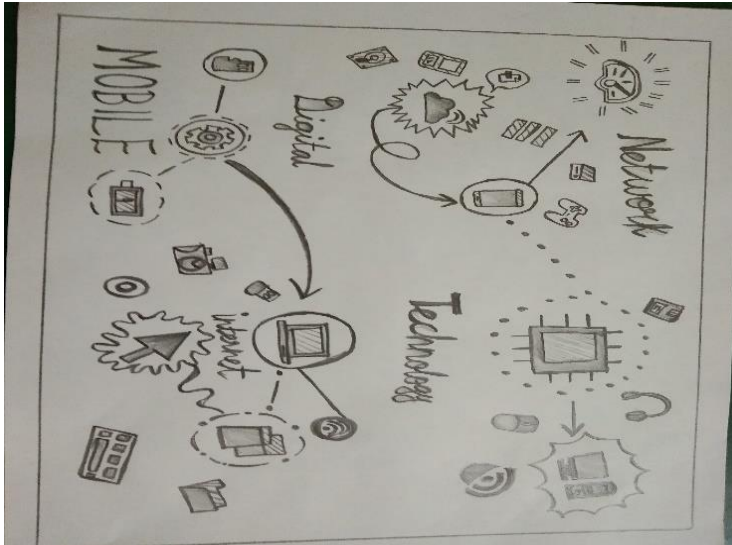


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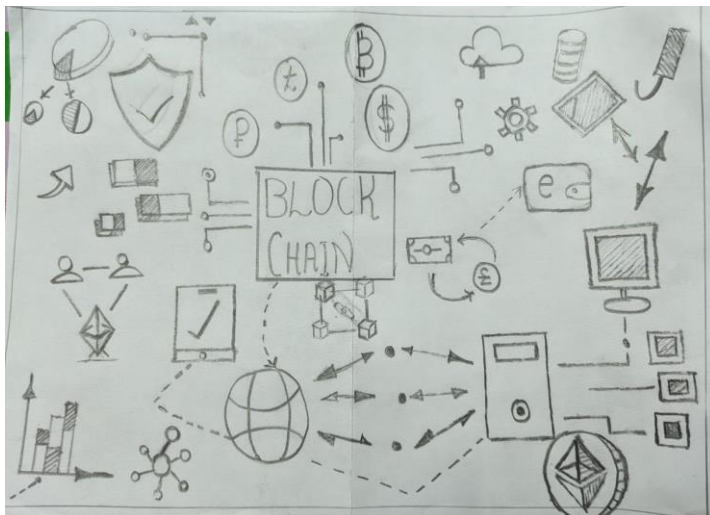


Technology Is Everything



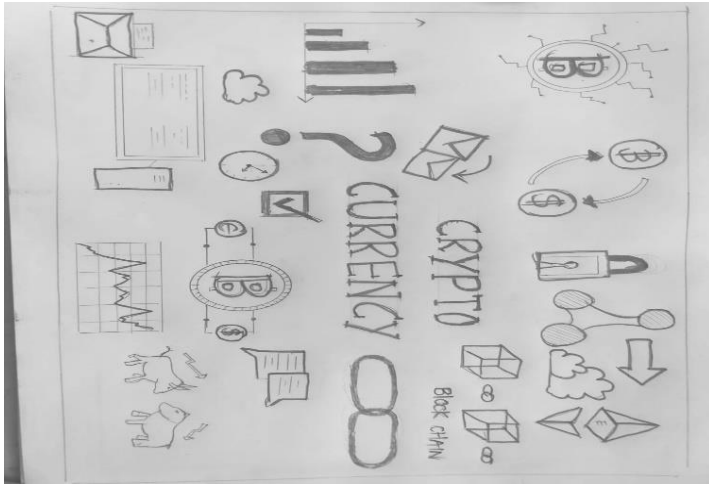
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Block Chain



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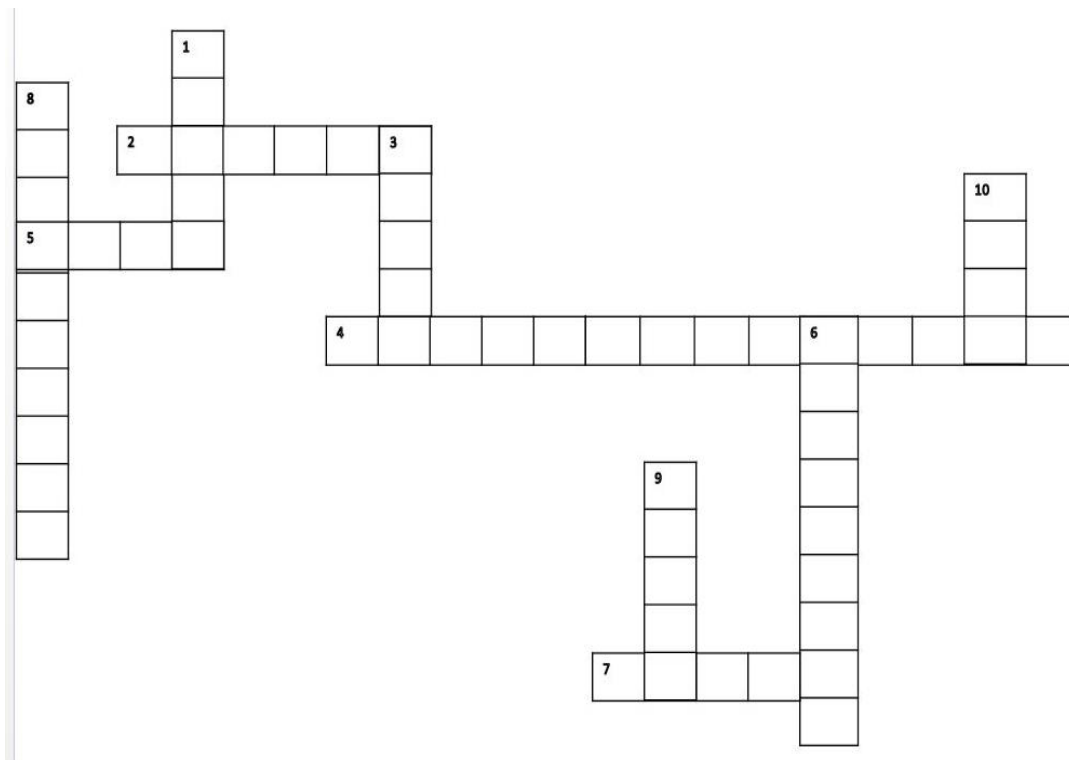
Crypto Currency



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Word Fun



* Answer will be revealed in the next issue.

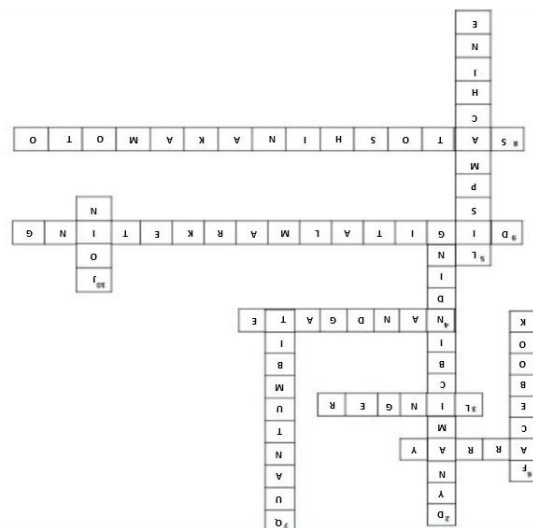
Questions :

Up to Down :

1. IoT associated with Data
3. Command Interpreter is also called as
6. Block of statements that perform certain task
8. Father of general management
9. C's in computer Forensics
10. Main components of big data

Left to Right :

2. Kinematic part of Robot
4. Google document is a type of
5. Universal Gate is
7. Layers of OSI model



Answer for previous
issue



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