



Pimpri Chinchwad Education Trust's (PCET) & Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM)

NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING & TECHNOLOGY

TALEGAON, TAL-MAVAL, DIST-PUNE 411057



2022



TECHZINE

Born to solve problems



Associated with
Department Of Computer Engineering

Vision

“Imbibing quality Technical Education and Overall Development by Endowing Students with Societal and Ethical Skills in Computer Engineers”

Mission

1. To impart engineering knowledge and skills by adopting effective teaching learning processes.
2. To develop professional, entrepreneurial & research competencies encompassing continuous intellectual growth.
3. To produce educated students to exhibit societal and ethical responsibilities in the working environment.





Dr. Lalit Kumar Wadhwa

Principal

I congratulate the department of Computer Engineering, NMIET for bringing out first issue of departmental magazine, TECHZINE2K22. I am sure that the magazine will provide a platform to the students and the faculty members to expand their technical knowledge and sharpen their hidden literary talent and will also strengthen the all-round development of the students. I am hopeful that this small piece of literary work shall not only develop the taste for reading among students but also develop a sense of belonging to the institution as well. My congratulations to the editorial board who took the responsibility for the energetic task most effectively. I extend best wishes for the success of this endeavor.



Dr. Aparna Pande

HOD Computer

The University curriculum is an essence of the conventional and the radical study, beyond horizon to develop multi facet Engineering graduate "TECHZINE 2K22" Magazine plays an important role. The prime objective is to nurture Engineering students to be educating and updating with rapidly growing technologies so that Computer Engineering graduated will be employable and competent nationally and internationally. Each one of the students is having hidden hobbies, skills and Art. To add new feathers in the student's crown, NMIET-Computer Engineering department provides right platform in form of TECHZINE 2K22 Magazine. TECHZINE Magazine prominently focuses on the latest trends and advancement in the multi-disciplinary technology through education and research. It contains Technical Blogs, Articles, projects. Technical Competitions such as Smart India Hackathon. TECHZINE2K22 Magazine consists of various sections so that every student gets equal opportunity to explore with the world. Extension with TECHZINE2K22 Magazine. This different sections but not limited such as Artwork section consists-Photography, Sketch, and Creativity. Literature section covers Poems and Quotes. Section Group Discussion on dynamic topics empowers leadership skill which is the essential part in the corporate world. Technical Event and Industrial visit improves employability globally. Guru Shikha the Great Indian culture inculcates Socio-Ethical values. Placement, industry Experts views and University Topper student's thoughts and discussion motivates the budding graduates. Through this exercise the objective is to meet with the departmental and institutions vision and mission.



EDITORIAL COMMITTEE



Mrs. Rohini S. Hanchate
Assistant Professor

Being the Editor, I feel privileged in presenting our department magazine "TECHZINE2K22". It is designed to showcase the talents of our faculty members and students. With a sense of pride and satisfaction I would like to say that with the active support of the Management, Director, Principal, HOD, Faculty members and Students, the department magazine has come alive. I extend my thanks to the colleagues of my department for being a part of the editorial board. With all the efforts and contributions put in by the Faculty members and Students; I truly hope that the pages that follow will make some interesting reading.



Ishika Bansal (Second Year)

We always wanted to put together all the exceptional talents in our department together at a place. Well with "TECHZINE2K22" we tried to make it happen. The TECHZINE2K22 team believes to "Strive for progress, not perfection" because perfection might have an end line progress doesn't.



Yash Hulge (First Year)

It has been a great experience. It is always that see more and see through. 'TECHZINE2K22' is the best portrayal art on science.

1: TECHNOLOGY

2: EVENTS

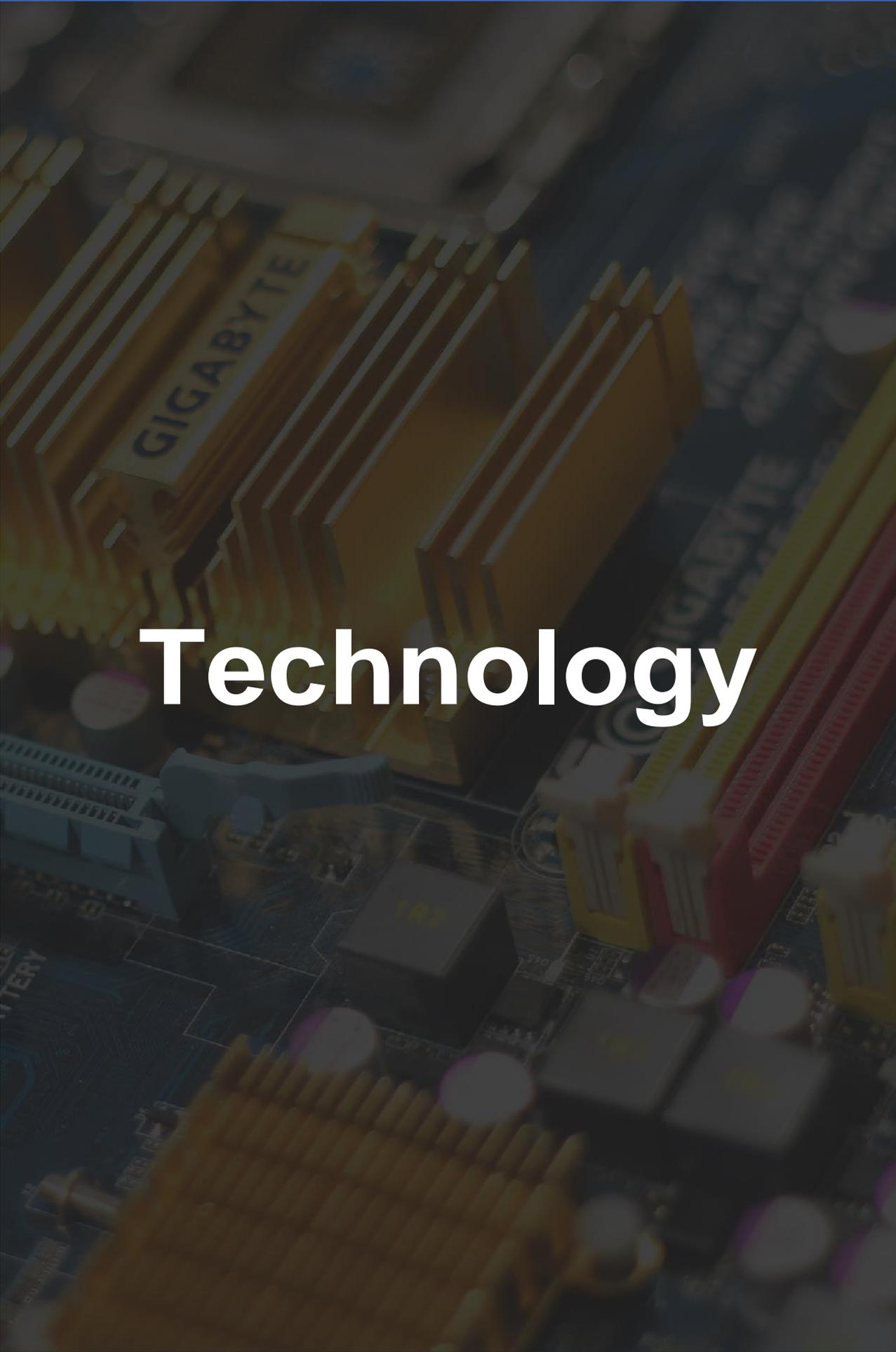
3: ART

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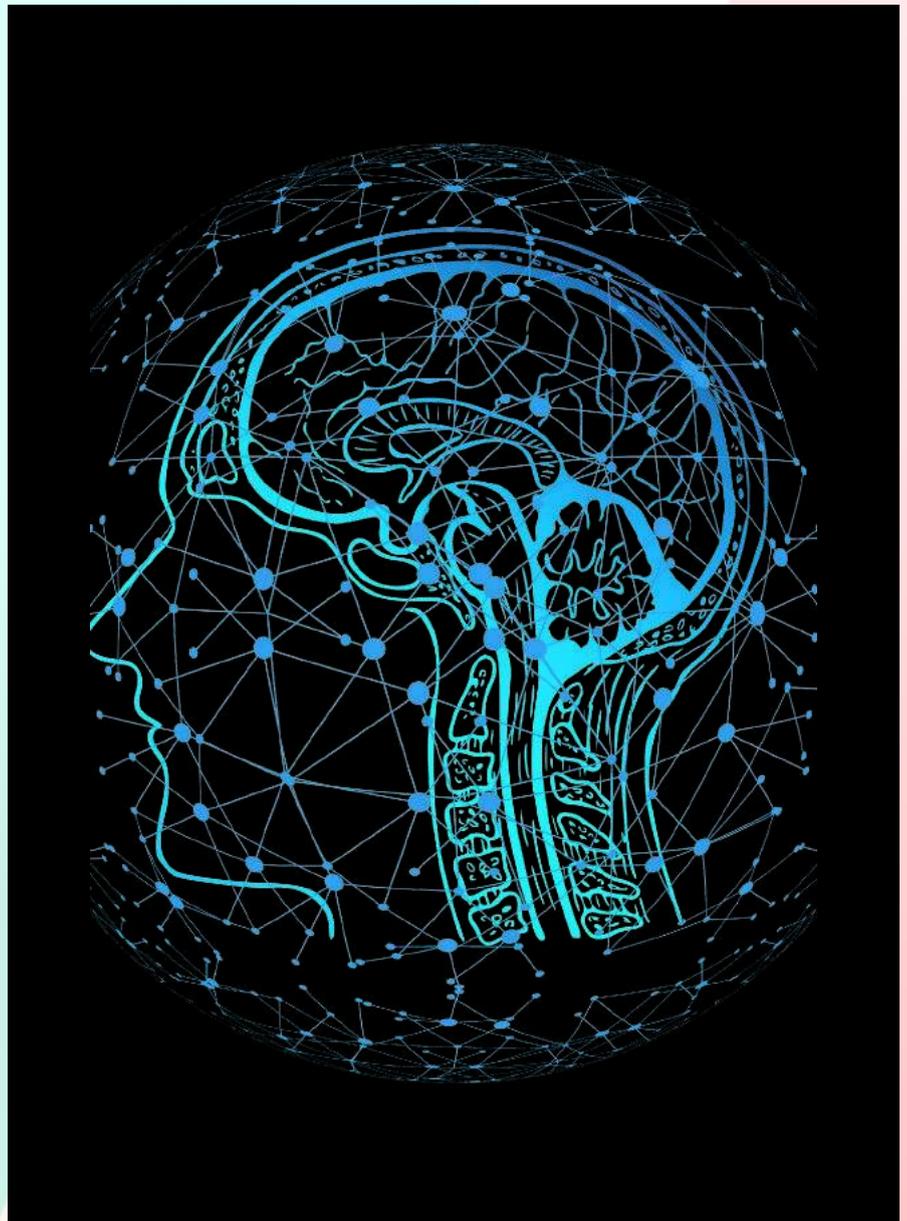
Technology

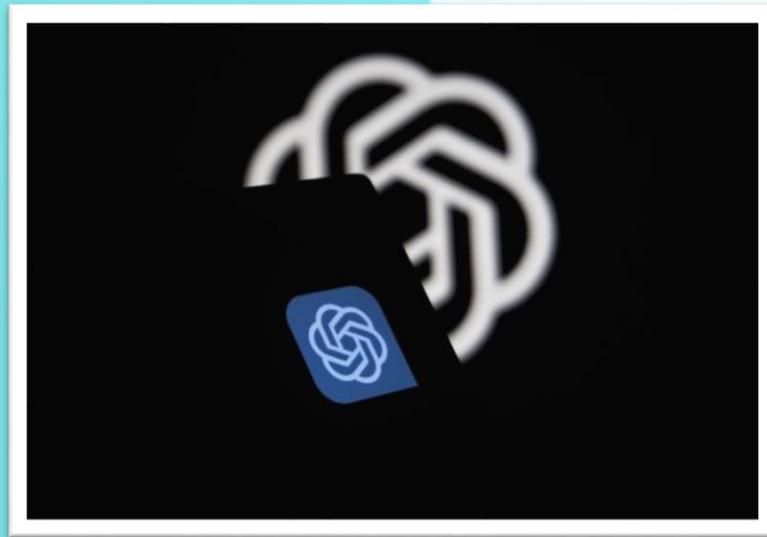
The Future is Here: Exploring OpenAI's GPT-3 and Its Revolutionary Advancements in Artificial Intelligence

By Yash Hulge
(First Year)

INTRODUCTION: -

OpenAI's GPT-3 is the largest language model ever built. It has 175 billion parameters and can perform an array of natural language processing tasks. Its capabilities have revolutionized the field of artificial intelligence, opening new possibilities for language understanding and generation.





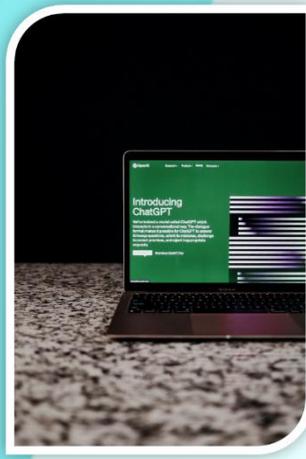
Understanding GPT-3: -

GPT-3 is a transformer-based language model that uses an unsupervised learning approach. It has been trained on a diverse range of internet text and can generate human-like text in response to a given prompt. Its capabilities include translation, summarization, question answering, and more.



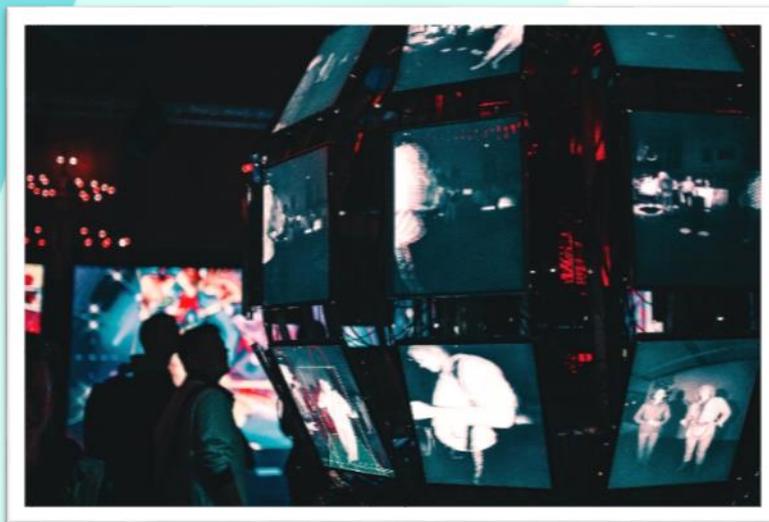
Applications of GPT-3: -

GPT-3 has a wide range of applications across various industries. It can be used for chatbots, writing assistants, content creation, language translation, and more. Its human like text generation capabilities have the potential to revolutionize the way we communicate and interact with technology.



Limitations of GPT-3 :-

Despite its impressive capabilities, GPT-3 has some limitations. It struggles with common sense reasoning and may generate text that is biased or offensive. Additionally, its high computational requirements make it difficult to scale for widespread use.



The Future of AI :-

GPT-3 represents a major step forward in the field of artificial intelligence. Its capabilities have the potential to revolutionize the way we interact with technology and transform various industries. As AI technology continues to advance, we can expect to see even more impressive developments in the future.

Edge Computing– In contrast to cloud computing, which processes and stores data in massive data centers far away from the end user, edge computing keeps computer data close to the user. Experts predict that the cloud will not totally disappear, but rather will coexist with edge computing as it puts processing closer to consumers, speeding everything from factory output to self-driving car reaction. Edge computing is used in technologies such as autonomous vehicles, video conferencing, and augmented reality. Edge computing, for example, reduces the delay of waiting for a server in the cloud to respond when an autonomous car makes a split-second choice to brake and avoid a collision.



Software engineers, especially edge computing software developers, are expected to expand by 22% between 2019 and 2029, according to the BLS, with a median annual pay of \$110,140 in 2020. Workers with edge computing skills are employed in industries such as telecommunications, security, and oil and gas. A bachelor's degree is frequently required for entry-level employment such as software developer or computer network architect. A master's degree is commonly required for managerial, administrative, and research employment.

Career Opportunities

- Edge Computing Specialist
- Software Developer
- Application Developer
- Computer Network Architect
- Computer Systems Analyst

Quantum Computing:- Quantum computing makes use of high-performance computers to address issues at the atomic and subatomic level. Quantum computers, unlike traditional computers, use quantum bits, also known as qubits, to execute calculations and store data. Quantum computers can now crunch data and solve problems considerably faster than they could before. While big tech companies like Google and IBM are making progress in quantum computing, the field is still in its early stages. Banking, transportation, and agriculture are some of the other areas that could profit from quantum computing.

Cybersecurity

Cybersecurity is concerned with preventing cyber threats and attacks on computer systems and networks. As businesses continue to store data in the cloud and conduct business online, the need for better protection grows. Cyberattacks cause enormous financial losses to individuals, corporations, and governments. The Colonial Pipeline, for example, lost \$5 million in May 2021 due to a ransomware attack in the eastern United States, which resulted in higher gas costs for consumers. Cybersecurity experts work for consulting firms, computer firms, and businesses and financial institutions. Apple, Lockheed Martin, and Capital One are among the major employers. A bachelor's degree is required for the finest cybersecurity employment; however, some firms prefer a master's degree.

Career Opportunities:

- Information Security Analyst
- Chief Information Security Officer
- Information Security Consultant
- IT Security Manager

Bioinformatics

Professionals in bioinformatics examine, preserve, and analyze biological data. Bioinformatics is a multidisciplinary discipline that combines computer science and biology to hunt for patterns in genetic material such as DNA, genes, RNA, and protein sequences. Bioinformatics professionals create the methodologies and software tools that enable these activities to be completed. Bioinformatics computer science technologies serve the medical and pharmaceutical, industrial, environmental/government, and information technology industries considerably. Bioinformatics aids doctors in preventative and precision medicine by allowing them to detect ailments early and treat them more effectively. The Bureau of Land Management, the Department of Defense, hospitals, and research institutes are all major employers of bioinformatics experts. A bachelor's degree is required for bioinformatics occupations. A master's or Ph.D. may be required for administrative, teaching, or supervising employment.

Career Opportunities:

- Bioinformatics Research Scientist
- Bioinformatics Engineer
- Biomedical Researcher
- Bioengineer/Biomedical Engineer
- Biostatistician

Quantum computing could be used to locate the most effective truck delivery routes, establish the most efficient flight schedule for an airport, or quickly and cheaply produce novel treatments. Quantum computing holds promise for developing sustainable technology and solving environmental issues, according to scientists. A master's or doctoral degree is commonly required for quantum computing jobs. Quantum computing workers can earn up to \$160,000 per year, according to ZipRecruiter, with an average yearly pay of \$96,900 as of May 2021. Many potential quantum computing jobs may not yet exist because quantum computing is a new computer science expertise.

Career Opportunities:

- Quantum Computer Architect
- Quantum Software Developer
- Quantum Algorithm Researcher
- Quantum Computer Research Scientist



Robotics

Robotics is a field that studies and develops robots in order to make life easier. Robotics is a multi-disciplinary field that includes computer science, electrical engineering, and mechanical engineering. Artificial intelligence, machine learning, and other computer science technologies are used in robotics. In industries such as manufacturing, farming, and food preparation, robots attempt to improve safety and efficiency. Robotics are used to build cars, do dangerous activities such as bomb dispersal, and perform intricate procedures.

Career Opportunities:

- Robotics Engineer
- Algorithm Engineer
- Data Scientist
- Software Engineer
- Robotics Research Scientist



Data Science

Data science was the next big thing throughout much of the first decade of the twenty-first century. Data science has existed for far longer than the last two decades. Data analysis has been a necessary duty for businesses, governments, institutions, and departments for millennia. Data analysis is useful for determining the effectiveness of operations, conducting employee surveys, and gauging people's general mood. Data analysis is one of the earliest tasks for which computers are used. Data analysis was so popular in the early 2000s that students were taught introductory classes on the subject in school. The advantage of a career in data science is that you are an integral component of the company's overall operation, regardless of the domain in which it operates. Any organization you serve is likely to rely on the data you generate and the interpretations you provide as part of their business strategy. Data science is commonly utilized in retail and e-commerce to determine the success of campaigns and the general trend of product growth. This, in turn, aids in the development of marketing strategies for specific items or types of products. In health care, data informatics can help clinicians choose the safest and most effective treatments for patients by recommending low-cost options and packages.

Full Stack Development

Full-stack development involves the creation of both client-side and server-side software, and it is expected to be one of the most popular technologies in 2021. The internet, a relatively new technology, was growing around the globe as the twenty-first century began with the dot-com boom. Websites were only simple web pages back then, and web development wasn't the complicated industry it is now. Web development nowadays includes both a front end and a back end. Websites have a client-side—the website that you see—and a server-side—the website that the corporation controls—especially in industries related to services like retail and e-commerce. Web developers are often assigned to either the client-side or the server-side of a website. Being a full stack developer, on the other hand, allows you and your firm to operate on both ends of the web development spectrum. Client-side or front-end development typically necessitates familiarity with HTML, CSS, and Bootstrap. PHP, ASP, and C++ are all required on the server side.

Virtual Reality and Augmented Reality

For more than a decade, virtual reality and augmented reality have been buzzwords in the technological world. These top technical innovations, however, have yet to translate into commercially available consumer goods. Virtual reality and augmented reality have a minor role in our daily lives. Despite the fact that VR and AR are well-known in the market, they are still relatively new technologies in 2021. Virtual reality has been widely used in video games to date, while augmented reality-based apps peaked in popularity a few years ago before fading. The greatest approach for virtual reality to become a top technology trend in the future is for it to become ingrained in people's daily lives.

IBM

Similar to Google and Microsoft, IBM has trained its assistant Watson in order to clear people's doubts regarding Covid-19. IBM has used the data provided by the U.S. Center for Disease Control (CDC) to guide its Watson assistant which is a conversational Artificial Intelligence platform. IBM, the White House Office of Science and Technology Policy and the U.S. Department of Energy have come together to form the COVID-19 High-Performance Computing Consortium. This consortium is helping the scientists in their research by providing some of the world's most powerful and advanced computers.



Apple has teamed up with Google to enable Contact Tracing. This will help people identify whether they ever crossed paths with someone who has tested positive for Corona. To serve this purpose, third party apps have been developed that are to be downloaded from either of the Android or iOS app stores. These apps enable contact tracing with the help of Bluetooth to notify people if they ever come in contact with someone having the Corona virus. Apple's Siri has been updated so as to answer any Covid-19 related questions. Siri also helps check if someone has symptoms of Covid-19 by answering yes or no.

APPLE

AMAZON

Amazon's Artificial Intelligence assistant Alexa has been updated to answer any questions about Covid-19 that people may have. Alexa uses data provided by the U.S. Center for Disease Control (CDC), Indian Council for Medical Research (ICMR), etc. Amazon has extended a hand to the scientist community by speeding up their research and diagnosis of Covid-19 by launching Diagnostic Development Initiative.



By
Yash Hulge
(First Year)

Elon Musk's Big Neuralink: Should We Prepare For The Digital Afterlife?

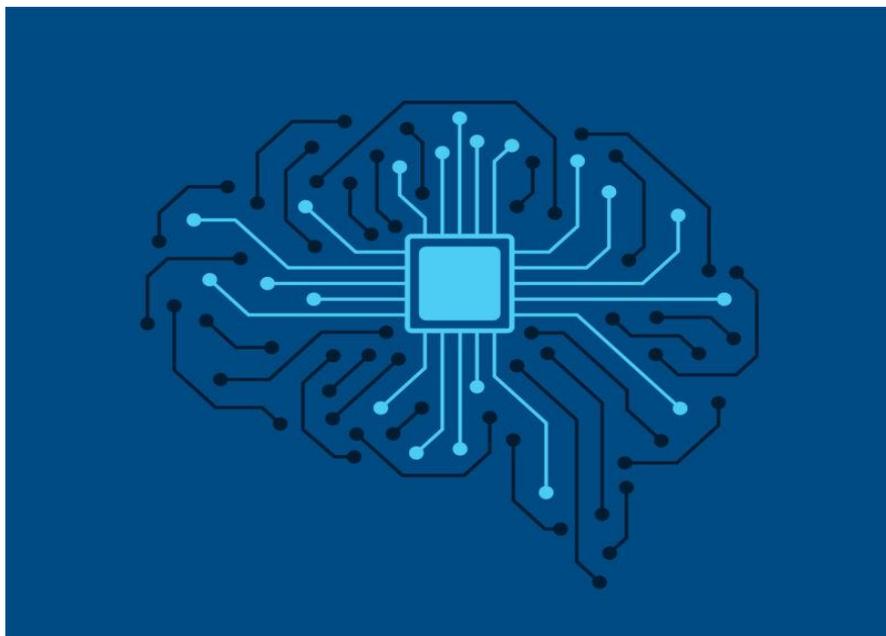
Musk said, “Over a decade ago I was very interested in the concept of neuro search - searching for objects or concepts by thinking about them and even published a paper and got a patent granted before starting a company. However, in 2010 we failed to raise funding for it, and when Elon Musk got into this space, I was incredibly excited. When Elon picks up a concept, he usually generates a lot of hype and generates a lot of skepticism. But then in the spirit of Thomas Edison, he delivers, beats his own forecasts, and keeps the public continuously engaged, excited, and educated. So when Elon went on stage with the first surgical robot and the prototype in pigs (imagine how hard is it to get the ethics approval for a show like this), it was very tempting to check his academic publications on the subject to see if there are any. It is a common practice for life science companies to publish a few research papers in peer-reviewed journals demonstrating the proof of concept and to provide evidence, and confidence to the fellow scientists, investors, and the potential recruits. A quick PubMed query resulted in four papers, three of which were on COVID-19 (one high-profile, and two pre-prints) and one - The Neuralink Paper in the Journal of Medical Internet Research. I also checked the Altmetric score of the paper and was surprised to see that only ten news outlets mentioned the paper. So let's take a closer look...”



Neuralink is a brain-machine interface company co-founded by SpaceX and Tesla founder Elon Musk along with a team of experts in areas such as neuroscience, biochemistry and robotics. Other founding members of Neuralink include Paul Merolla, Vanessa Tolosa, Max Hodak, Dongjin Seo, Timothy Hanson, Philip Sabes, and Tim Gardner. When the company was founded, however, these people wanted to create and develop cutting-edge brain computer interfaces (BCI), or micron sized devices that will help people with certain brain injuries like stroke and cancer. Since Neuralink is a private company, we don't know how much Musk invested in it or what its market capitalization is. However, according to financial news provider Millennial Money, Musk invested a total of \$100 million into the company with additional \$58 million in investments coming from private equity firms.

Musk's approach has many advantages over previous attempts at similar experiments. Firstly, the small size and compactness of the thin-film probes are a better match for insertion in the brain. In addition, the option to choose where to insert the probes allows for custom-built geometrics, which in turn gives space to targeting specific brain regions while avoiding vasculature. Lastly, the design of the ASIC offer flexibility and supports high channel counts within size and power constraints. The field of neurosurgery is facing new challenges; particularly with regards to a high-bandwidth device suitable for clinical application. However, as Musk's claims in the paper, is it plausible that patients with spinal cord or certain brain injuries could control digital devices.

-Mehul Ligade



Projects



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Food Expiry Tracker App

AIM

To design such a system that can track expiry date for various food items.

PROBLEM STATEMENT

Users need to reduce wastage of food and unnecessary buying to help manage budget and minimize wastage

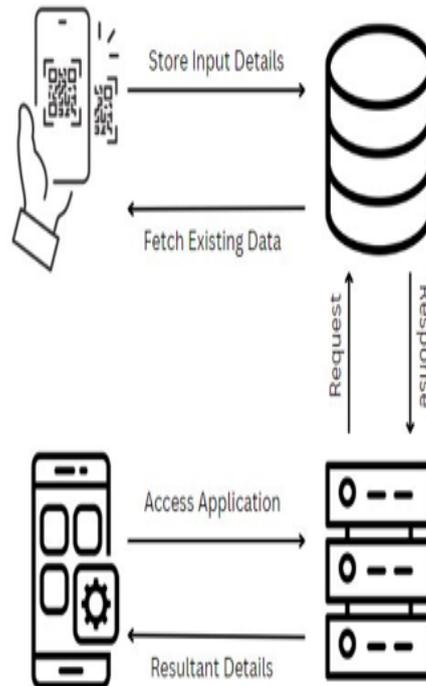
OBJECTIVE

Provide an application that makes it easier for user to keep track of food items and their expiry.

ALGORITHM



ARCHITECTURE



METHODOLOGY

- In this project firstly the design of the application would consist of a Graphical User Interface (GUI) where the user can view the current list of items that is already present in the database.
- The preferences will include the option to enable or disable notifications, setting the notification time each day to remind what food is expiring, set the number of days before an item expires that the notification will show

CONCLUSION

- In conclusion, the application is able to show a list of all items by color coding it as well as sorting it in order of high priority
- The application is also able to automatically discover the name of the products using barcode scanning and tries to detect the date of expiry by OCR scanning.
- Overall, this application would definitely be very useful in preventing food wastage as well as saving money.

FUTURE SCOPE

- Better, more enhanced GUI The user interface can be made more appealing to the user. More themes can be provided for the application to make the look and feel of the application more eye-catching.
- More features and preferences - The application can have more features like adding food items to different categories and different views like grid view or list view for displaying the food items.



IoT-based Wet and Dry Segregation

Abstract:

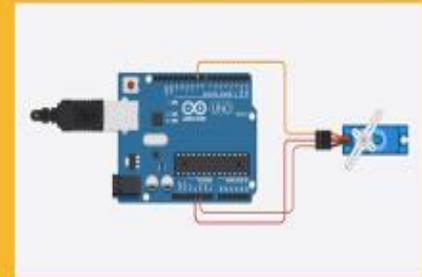
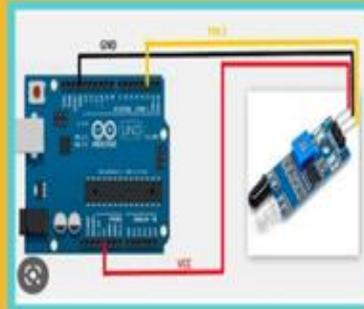
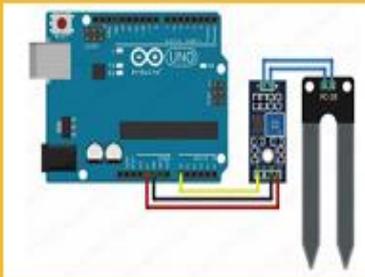
The present relates to a waste segregation system that utilizes an IR sensor, a moisture sensor, and an Arduino microcontroller. The system provides a highly efficient and automated solution to the process of waste segregation by accurately determining the wet or dry nature of each waste item and directing it to the appropriate bin. This innovative approach reduces manual effort and minimizes the risk of human error, leading to a more streamlined and effective waste segregation process.

Origin of Research Problem

The solution to the problem of manual waste segregation came about because people wanted a better way to sort waste. The traditional manual method was too slow and made mistakes, so they decided to use new technology to improve it. The new solution uses special sensors and a computer to quickly and accurately sort waste into different bins, making the process faster and reducing the risk of mistakes. This new solution is better for the environment and helps keep waste sorted correctly.

Objectives of Work

The objective of the system is to provide a fast, accurate, and environmentally-friendly way to sort waste items into the designated bins. By automating the process of waste segregation, the system strives to promote a more sustainable and eco-friendly future by reducing manual effort, minimizing human error, and improving the accuracy and efficiency of waste management.



Working

The system for wet and dry waste segregation uses an IR sensor, a moisture sensor, and an Arduino Uno to automate the sorting process and improve its accuracy and efficiency. The IR sensor and moisture sensor are positioned near the waste items on a conveyor belt or similar mechanism. The IR sensor measures the reflectance of the waste item and provides a value to the Arduino, which is used to estimate the dryness of the item. The moisture sensor, on the other hand, measures the moisture content of the waste item and sends a value to the Arduino.

The Arduino processes the values from the sensors and determines if the item is wet or dry based on predefined conditions. If the item is determined to be wet, the Arduino activates the sorting mechanism, such as a motor or solenoid, to divert the item to the designated wet waste bin. Similarly, if the item is dry, the sorting mechanism is activated to divert the item to the designated dry waste bin.

This process is repeated for each item on the conveyor belt until all the waste has been sorted. By automating the process of waste segregation, the system reduces the manual effort required and minimizes the risk of human error.

Representation of Model



References:

Name of students: 1) Pratham Bhor 2) Ishika Bansal 3) Prasad Harer
4) Prayukti Dubey 5) Yash Hulge 6) Mehul Ligade

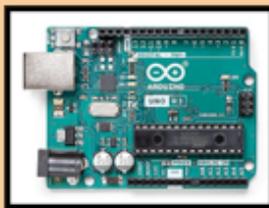
Name of the Guide: Prof. Rohini Hanchate

Conclusion:

The wet and dry waste segregation system using IR sensor, moisture sensor, and Arduino Uno automates the waste sorting process for improved accuracy and efficiency. The system accurately determines dryness and moisture, sorts waste items and reduces manual effort. This results in a more effective waste management system with less impact on the environment.

IOT Based Smart Dustbin

Abstraction: - An IOT-based smart dustbin made of Arduino Uno, ultrasonic sensor, and servo motor is a waste management system that leverages the capabilities of these components to provide real-time monitoring and control of garbage collection. The Arduino Uno acts as the central microcontroller that processes data from the ultrasonic sensor, which is used to measure the fill level of the bin, and the servo motor, which is used to open and close the bin lid. The IOT-based smart dustbin can be connected to the Internet to enable remote monitoring and control, and can provide valuable data on waste generation patterns and usage.



Arduino Uno R3



Servo Motor SG90



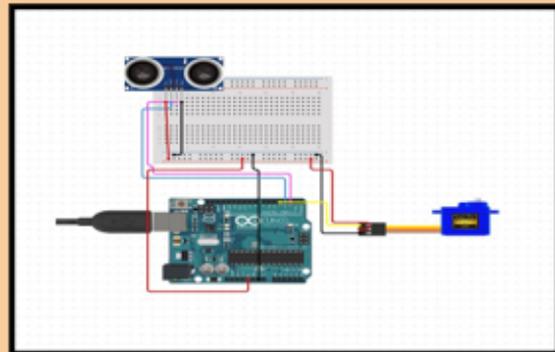
Ultrasonic Sensor HC-SR04

Working: - 1) Fill level measurement: The ultrasonic sensor measures the fill level of the bin and sends this data to the Arduino Uno R3.

2) Lid control: Based on the fill level data, the servo motor is controlled by the Arduino Uno R3 to open and close the bin lid.

3) Data transmission: The fill level data can be transmitted to a remote server through the Internet, enabling real-time monitoring and control of the bin.

4) Waste generation analysis: The data collected by the IOT-based smart dustbin can be analyzed to determine waste generation patterns and usage, helping to optimize waste management operations.



Arduino Uno R3 - The Arduino Uno R3 is a microcontroller board based on the ATmega328P (datasheet). It has 14 digital input/output pins, 6 analog inputs, a 16 MHz quartz crystal, a USB connection, and a power jack. The Arduino Uno R3 is programmed using the Arduino Integrated Development Environment (IDE) and supports a variety of programming languages, including C++ and Python.

- Input Voltage of Arduino Uno R3 is 5V to 20V.

Ultrasonic Sensor - An ultrasonic sensor is a device that uses high-frequency sound waves to measure distance, speed, or presence of an object. It works by emitting an ultrasonic wave and measuring the time it takes for the wave to bounce back after hitting an object. The distance to the object can be calculated using the speed of sound and the time it took for the wave to return. Ultrasonic sensors are commonly used in a variety of applications, such as distance measurement, object detection, and level sensing. They are known for their non-contact operation, high accuracy, and ability to detect objects through different materials, making them a popular choice in industries such as automotive, manufacturing, and robotics.

Pin Connection - 1) Input Voltage of Ultrasonic Sensor Vcc 5V.

- 2) Ultrasonic Sensor GND to Arduino Uno R3 GND.
- 3) Trigger pin to Digital pin no. 5.
- 4) Echo pin to Digital pin no. 6.

Servo Motor - The SG90 is a small, low-cost servo motor commonly used in robotics and other automated systems. It is a type of actuator that provides precise control of angular position, velocity, and acceleration. The SG90 has a rotation range of approximately 180 degrees and is controlled by sending a series of pulses to the motor's control wire. The duration of the pulses determines the motor's position. The SG90 is widely used in hobbyist projects and educational applications due to its small size, low cost, and ease of use.

Pin Connection - 1) Input Voltage Vcc 5V. 2) Servo Motor GND to Arduino Uno R3 GND. 3) Signal to Digital pin no. 7.

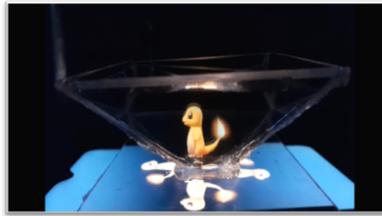
Abstract:
 '3D Hologram Advertisement' will be the futuristic technology for advertisement purpose. This type of technology helps in various ways like 'Product Advertisement', 'Brand Advertisement', and etc. It is not only helpful for advertisement but also it can make a historic change in medical field also. '3D Hologram Advertisement' can show the image in so realistic way that no ordinary projection will do, and this technology will be helpful to build a **curiosity and interest** among the customers for marketing of products. This technology will be revolutionary in "Advertisement Field".

INTRODUCTION. Typically 3D Hologram is made up of Beam Shutter that will collect all the rays, Beam Expander that can expand the collected rays, Wave Plate, Beam Splitter, Diode Laser. All these devices can able to produce an exceptional 3d image which is purposely used for Advertisement of Marketing Products.

There are some objectives about 3d Hologram Advertisement:- 1.It can be used for entertainment fields like films and gaming 2.Not just in Advertisement field but in every field of science like professional works, M.L(Machine learning) etc. 3.The most important objective is to put this into medical field also with the help of some futuristic way.

Idea by 'Yash Bhalchandra Hulge'

Experimental Set-Up :-



CONCLUSION:-"3D holographic projection technology" as a prevailing visual high-tech has been very popular in recent years. The stereoscopic images(holograms) reconstructed by holographic technology are helpful in advertising to promote their products and ideas in a great style in unprecedented visual effects. In the near future, it might be the most interesting trend in industry.

FUTURE SCOPE – Educational applications, 3D simulations displays for scientific visualization, Marketing with 3D holographic display, Improved virtual reality and augmented reality, Telepresence and video conferencing. **Advances in Technology:-** Touchable holograms, Tactile holographic display with haptic feedback, Horizontal 360 view of image on table top, User interfacing integrated displays, Entertainment displays, Military and Space applications.

REFERENCES –
 1- <https://magic-holo.com/en/what-is-a-3d-hologram/>
 2- <https://www.holoco-display.com/en/holograms.html>

COST ESTIMATION :-

Sl.No	Components	Quantity	Total Cost
1.	Beam Shutter	1	30000/-
2	Beam Expander	1	60000/-
3	Wave plate	1	45000/-
4	Beam splitter	1	20000/-
5	Diode laser	1	28000/-
	Grand Total		1,83,000/-

Components



Beam Shutter



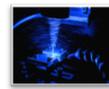
Beam Expander



Wave plate



Beam Splitter



Diode Laser

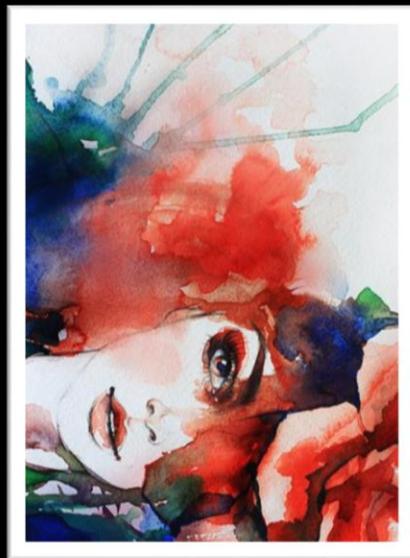
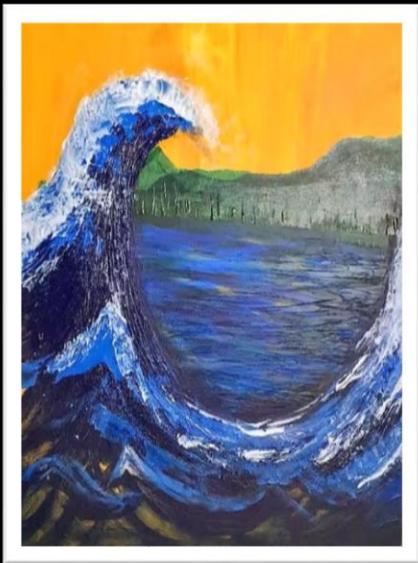
Name of Student	Name Of The Guide
Mr. Yash Bhalchandra Hulge(Team leader)	Prof. Jyoti Gore ma'am
Mr. Raj Anilrao Biradar	
Mr.Sujal Saniavkumar Koli	
Mr. Aniket Sanjay Kavgude	
Mr. Aditya Nivrutti Amup	
Ms. Aishwarya Pandurang Karande	

Design Of 3D Hologram Advertisement

ART



Jessica
Kharche



Abhishek
Pohare



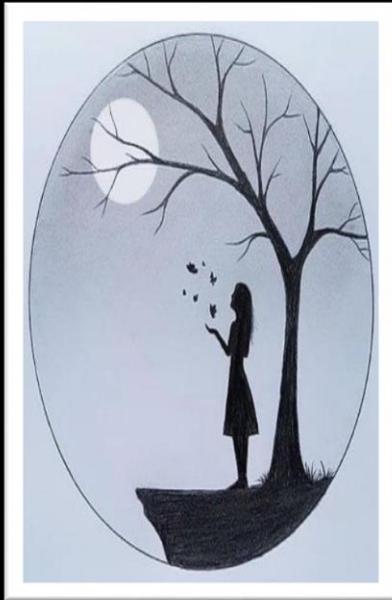
Himanshu Singh



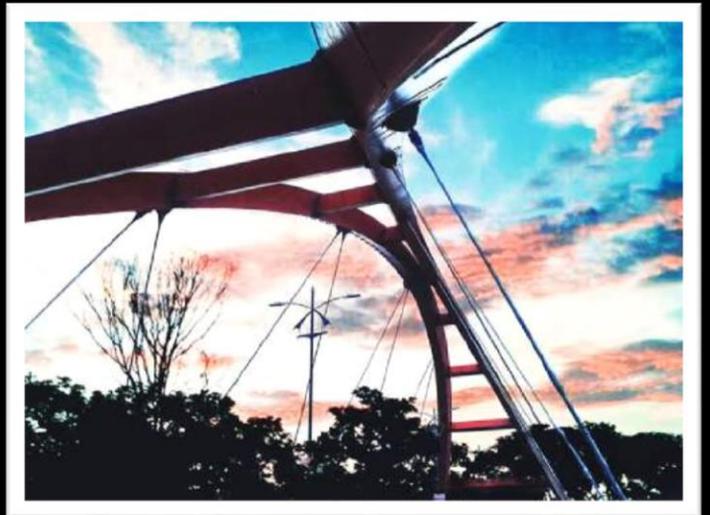
Samruddhi Jadhav



Rutuja Jambulkar



Shantanu Patil



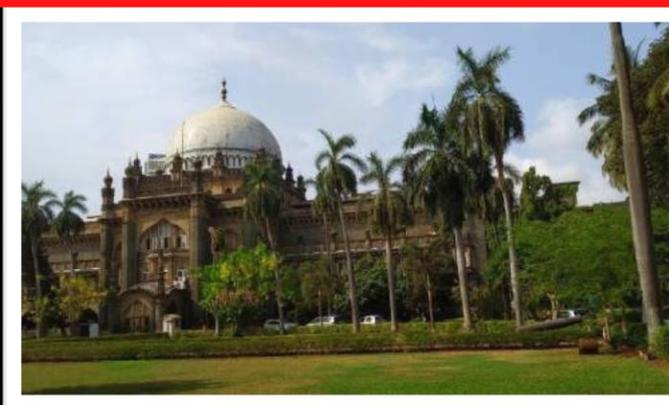
By
Vaishnavi Patil



By
Atharva Sonone



By
Abhishek Dalvi



Literature



आई

आईचा 'आ ' आणि आभाळातला 'आ ' सारखाच असतो ना... तर आभाळा
एवढ स्वतः पाहताना कधी तिचा वचार करा पुन्हा.

एवढस पिल्लू मोठ करताना किती फुलासारखी जपते ती माऊली...
कितीही मोठी चुक पदरात घेत चरंतर राहते तिची सावली.

कितीही हरमुसली असेल तरीही कुशीत घेते ती आई...
तिच्या सारखी तीच, तिच्या मायेला कूठेच तोड नाही.

तर आपण व बांधताना तचा हात सोडू नका.....
कारण तिनेच तुमच्या पंखात बळ दिलय हे कधी वसरू नका.

स्वतः बघा, यामागे धावा...
पण कधीच स्वतः काय आहे याचा घेतलाय का तुम्ही आढावा!

पुढे चालताना तिला वळून बसेलही तुमच्या आयुश्याची घडी...
पण नंतर आई तुला खूप सांगायच राहून गेलं अशी मनात राहिल नेहमी
अढी .

Gargi Shetye
(Second Year)

Other Side

Truth and Falsehood are the concepts at which human is very naive about. People tell lies when they want to protect themselves. We need to realize that honesty holds the key to all the answers human is seeking for. It is very easy to know the difference between facts and fiction, but it is very hard to understand where to use them.

I am not a sophisticated human who knows what truth, falsehood is and where to use them. I have a place where I go to seek the answers; I call it the "Other Side". Everyone has that other side where they go and think about the things that they hesitate to talk about in the real world. Sometimes I think that I am on a quest to find out the truth about myself or life or what our purpose in this world is or why we even exist (I know one thing, I am not here to work 9 to 5).

All the facts are different but all the fiction is exactly the same. While discovering the other side you talk so much about truth that you get to know you are learning from it. Lying will not get you anywhere, but you will get surrounded by it. Truth can cut you free from the cage of falsehood you were stuck in forever. If you want to trade the typical life for something crazy and fun, try the potion of truth.

The other side, if you are not able to discover it on your own then don't worry just think about the first time you ever lied and the first time you spoke the truth, what made you feel free?

Mrs. Rohini Hanchate
(Asst. Professor)

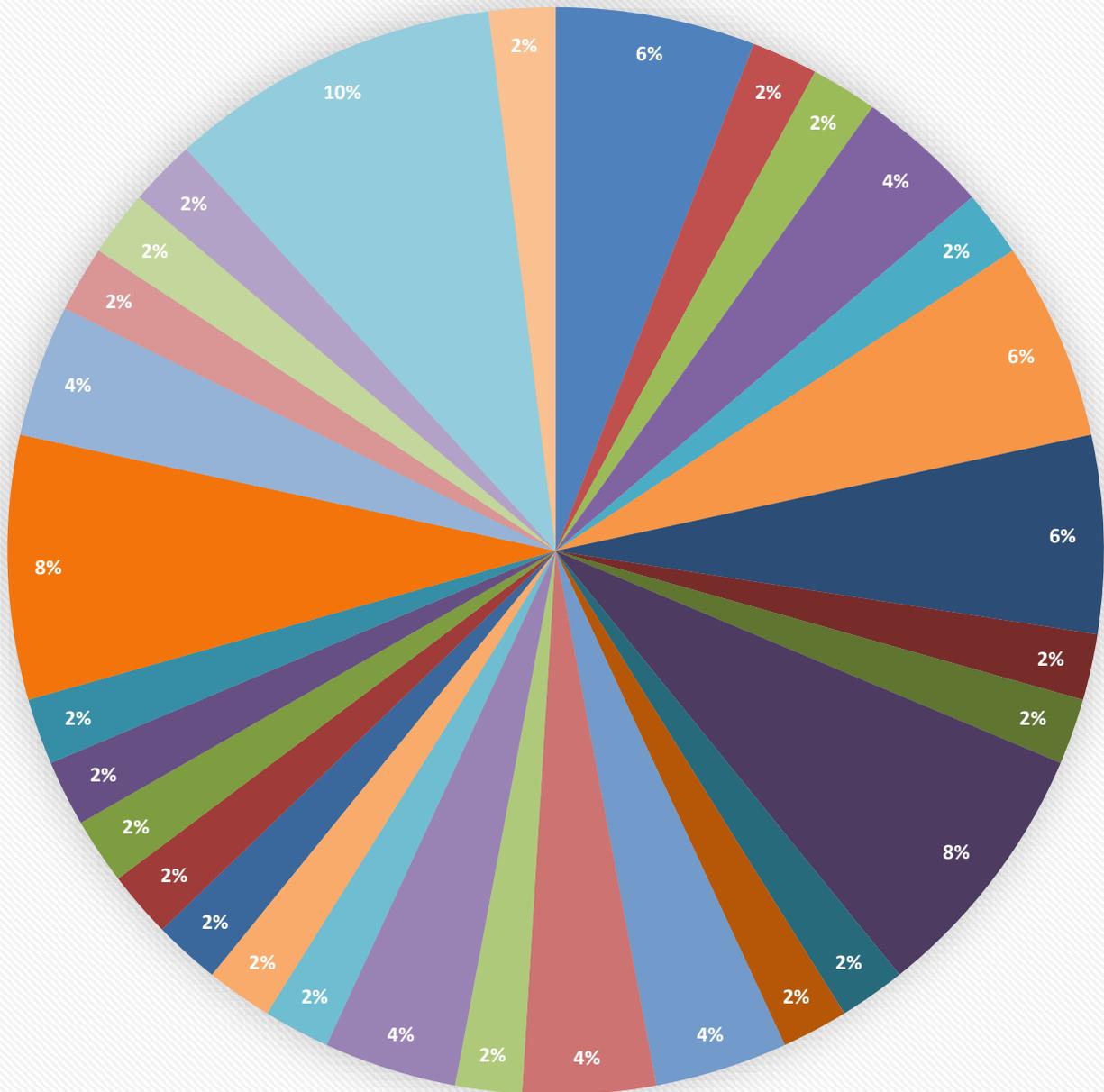
GEARS OF PROGRESS

Engineers, creators of the modern age,
Crafters of solutions, on wisdom's stage.
With tools and knowledge, they innovate,
Designing a world that's truly great.

They build bridges that span the vast,
From circuits intricate to structures steadfast.
With mathematical minds and hearts that dare,
Engineers shape the future with utmost care.

In labs and workshops, they toil and strive,
Solving challenges to make life thrive.
These architects of progress, in every sphere,
Engineers, to the world, hold dear.

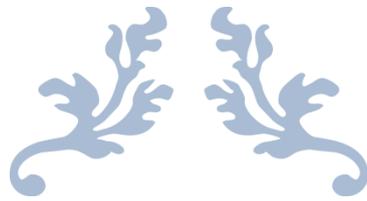
PLACEMENTS OF STUDENTS IN 2021 - 22



- Accenture
- Atos
- Capgemini
- Cybage
- FIS Global
- HCL
- Icertis
- MESTECH
- Quantiphi
- TCSL

- Acidaes Solutions Pvt. Ltd
- Birlasoft
- Clover Infotech
- Emerson
- Fiserv
- Hexaware Technologies
- Infogain
- Nutanix Pvt Ltd
- RISE
- Wipro

- Afour Technologies
- Blueconch
- Coditas Solutions LLP
- EYGBS (India) Private Limited
- Harman Connected
- IB-Arts Pvt Ltd
- LTI
- Persistent
- SENWELL
- Xoriant



**THANK
YOU**



TECHZINE



DEPARTMENT OF COMPUTER ENGINEERING