Sri Vasavi Engineering College(Autonomous)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
APPROVED BY AICTE, PERMANENTLY AFFILIATED TO JNTU KAKINADA

# SCUD

## VOL :13 ISSUE : 3

# ARSENAL

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# CONTENTS


01 TECHNICAL ARTICLES

02 DEPARTMENT GALLERY

03 NON-TECHNICAL ARTICLES

04 STORY WRITING

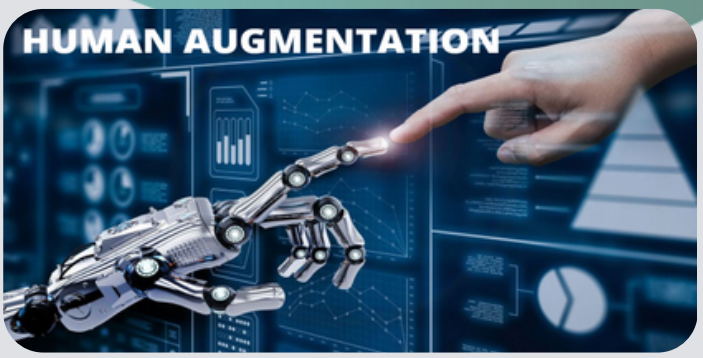
05 ARTS & PHOTOGRAPHY

06 DEPARTMENT GALLERY




**SCIENCE & ART TONE IN**

# Human Augmentation: Unleashing the Potential of the Enhanced Self




## Introduction:

Human augmentation refers to the integration of technology into the human body to enhance physical, cognitive, or sensory abilities. With advancements in fields such as neuroscience, robotics, and biotechnology, the concept of enhancing the human experience through technological augmentation is no longer confined to the realm of science fiction. This article delves into the various aspects of human augmentation, exploring its potential benefits, ethical considerations, and the implications for society.

## The Advancements and Benefits of Human Augmentation:

- **Enhancing Physical Abilities:** Human augmentation has the potential to revolutionize physical performance. Prosthetic limbs, exoskeletons, and muscle stimulation devices can restore mobility to those with physical disabilities.

- **Cognitive Enhancement:** Cognitive augmentation focuses on improving memory, attention, and problem-solving abilities. Brain-computer interfaces (BCIs) allow individuals to control computers or prosthetic devices with the power of their thoughts.

- **Sensory Augmentation:**Enhancing human senses can open up new realms of experience. Bionic eyes and cochlear implants have already restored sight and hearing to many individuals.

## Ethical Considerations and Challenges:

- **Privacy and Security:** As human augmentation technologies become more integrated into our lives, concerns about privacy and security arise. BCIs, for example, raise questions about the potential for unauthorized access to an individual's thoughts.

- **Inequality and Accessibility:** The widespread adoption of human augmentation technologies could exacerbate existing social inequalities. As these technologies are often expensive and require specialized medical expertise.

## Societal Implications and Future Prospects:

- **Redefining Normalcy:** The widespread adoption of human augmentation technologies will challenge societal norms and perceptions of what it means to be human.
- **Economic Impact:** The deployment of huma augmentation technologies has the potential to reshape the workforce. Manual labor jobs may be replaced by augmented robotics, while new job opportunities in maintenance, programming, and healthcare related to human augmentation.
- **Ethical Responsibility:** As we venture further into the realm of human augmentation, it is crucial to prioritize ethical considerations. Transparency, accountability, and inclusivity should guide the development of these technologies.

## Conclusion:

Human augmentation holds immense potential to enhance the human experience, from restoring physical abilities to augmenting cognitive functions and expanding sensory perception. However, the ethical, societal, and economic implications cannot be overlooked.

L.Chandrahaas
21A81A0634

# THE REVOLUTIONARY IMPACT OF DRONES

## Transforming Industries and Empowering Innovation

## *Introduction:*

In recent years, the rapid advancement of drone technology has created a paradigm shift in various industries, ranging from logistics and agriculture to cinematography and disaster management. Drones, also known as unmanned aerial vehicles (UAVs), have revolutionized the way we approach tasks, offering unprecedented efficiency, accessibility, and versatility. This article explores the diverse applications of drones and their potential to transform industries, while also addressing the concerns surrounding their use.

### *1. Drones in Logistics and Transportation*

The logistics and transportation sector has greatly benefited from the incorporation of drones into their operations. Drones enable swift and cost-effective delivery of goods, especially in remote or challenging areas. Companies like Amazon and UPS have already started experimenting with drone delivery systems, promising faster and more efficient services. Moreover, drones can be employed in monitoring and maintaining transportation infrastructure, inspecting pipelines, railways, and bridges, reducing the risks associated with human inspections.

### *2. Drones in Agriculture*

The agricultural industry has embraced drones as a powerful tool for precision farming. By utilizing aerial imagery and data analytics, drones can monitor crop health, detect nutrient deficiencies, and pest infestations at an early stage. This allows farmers to take timely action, optimizing resource allocation and minimizing environmental impact. Additionally, drones can be used for precision spraying, planting, and harvesting, enhancing productivity and reducing labor costs.

### *3. Drones in Cinematography and Entertainment*

The film and entertainment industry has experienced a significant transformation with the integration of drones. Aerial cinematography, which was previously expensive and logistically challenging, has become more accessible and affordable. Drones equipped with high-resolution cameras and stabilization technology can capture breathtaking shots from unique perspectives, revolutionizing the visual storytelling experience. Moreover, drones have also become popular in sports events, concerts, and festivals, enhancing the audience's engagement and providing immersive experiences.

## *4. Drones in Disaster Management*

Drones play a crucial role in disaster management and emergency response. Equipped with thermal imaging cameras and sensors, they can quickly assess the extent of damage, locate survivors, and identify potential hazards in disaster-stricken areas. Drones can also deliver medical supplies, food, and other essentials to inaccessible or dangerous locations, enabling prompt relief efforts. By providing real-time situational awareness, drones assist in coordinating response teams and facilitating effective decision-making.

## *Concerns and Ethical Considerations*

While the potential benefits of drones are undeniable, their use also raises concerns regarding privacy, security, and ethical considerations. The ability of drones to capture high-resolution imagery from above can infringe upon personal privacy if misused or abused. Regulations regarding drone usage, data collection, and storage need to be established to protect individuals' rights. Moreover, the risk of drone-related accidents, collisions, and misuse by individuals with malicious intent requires careful monitoring and regulation.

## *Conclusion*

Drones have emerged as a game-changer across industries, offering unparalleled efficiency, cost-effectiveness, and innovation. From streamlining logistics and transportation to revolutionizing agriculture and cinematography, drones have transformed the way businesses operate. However, it is crucial to address the concerns surrounding privacy, security, and ethical considerations associated with their use. Regulations and guidelines must be implemented to ensure responsible and ethical drone usage, striking a balance between innovation and safeguarding individual rights. With responsible adoption, drones have the potential to shape a brighter future, driving progress and empowering various sectors to achieve new heights of success.

**G.DINESH**
**21A81A0515**

Ref. No. SVEC/CSE/Reports/2022-2023/03

## CSE Progress Report from 1st March 2023 to 31st May 2023

## REPORT

### Faculty Development Programmes Conducted by the Department

| S.No. | Name of the faculty | Name of Workshop/Seminar/ FDP/SDP Attended | Location | Nos. of days | From Date | To Date |
|---|---|---|---|---|---|---|
| 1. | P.Ujwala Sai | FDP on Data Science and Chat GPT | Organized by K L Deemed to be University in Collaboration with ExcelR | 05 | 15.05.2023 | 19.05.2023 |
| 2. | P. Ramamohanrao | Workshop on Cyber Security and Forensics | Organized by the Department of Information Science and Engineering | 05 | 02.05.2023 | 06.05.2023 |
| 3. | Dr K.Srinivasa Rao | FDP on Machine Learning in Big Data Applications And Security Challenges | Organized by Department of CSE, in MLR Institute of Technology | 06 | 24.04.2023 | 29.04.2023 |
| 4. | S.Shanthi Rupa | FDP on “Inculcating Universal Human Values in Technical Education” | Organized by AICTE at Sri Vasavi Engineering College, Tadepalligudem | 03 | 10.04.2023 | 12.04.2023 |
| 5. | M.Pravallika | FDP on “Inculcating Universal Human Values in Technical Education” | Organized by AICTE at Sri Vasavi Engineering College, Tadepalligudem | 03 | 10.04.2023 | 12.04.2023 |
| 6. | K.Prveen Kumar | FDP on Blockchain Technology | Organized by Make Skilled, Hyderabad | 07 | 27.03.2023 | 02.04.2023 |
| 7. | L.A.Datta Ravi Tez | FDP on New Age Technologies | Organized by SCOPE, VIT-AP, Amaravati. | 05 | 28.03.2023 | 01.04.2023 |
| 8. | M. Babu Rao | FDP on Data Mining | Conducted by NPTEL | 08 | Jan-2023 | Mar-2023 |
| 9. | N. Hiranmayee | FDP on Data Mining | Conducted by NPTEL | 08 | Jan-2023 | Mar-2023 |
| 10. | P. Ujwala Sai | FDP on Data Mining | Conducted by NPTEL | 08 | Jan-2023 | Mar-2023 |
| 11. | K. Devid Raju | FDP on Design and Analysis of Algorithms | Conducted by NPTEL | 08 | Jan-2023 | Mar-2023 |
| 12. | L.A.Datta Ravi Tez | FDP on Data Analytics and Cyber Security | Organized by Computer Engineering at Matoshri Institute of Technology, Yeola | 03 | 23.03.2023 | 25.03.2023 |

| S.No. | Name of the faculty | Name of Workshop/Seminar/ FDP/SDP Attended | Location | Nos. of days | From Date | To Date |
|---|---|---|---|---|---|---|
| 13. | S. S. Lakshmi Surekha | Online FDP on Machine Learning: Concepts and Applications | Organized by the department of CSE and IT, Kathua Campus, University of Jammu | 07 | 14.03.2023 | 20.03.2023 |
| 14. | N.Hiranmayee | FDP on Ethical Hacking | Organized by Blackbucks and KKR & KSR Institute of Technology and Sciences | 05 | 27.02.2023 | 03.03.2023 |
| 15. | G. Nagavallika | FDP on Ethical Hacking | Organized by Blackbucks and KKR & KSR Institute of Technology and Sciences | 05 | 27.02.2023 | 03.03.2023 |
| 16. | P. Ujwala Sai | FDP on Ethical Hacking | Organized by Blackbucks and KKR & KSR Institute of Technology and Sciences | 05 | 27.02.2023 | 03.03.2023 |

## Workshops / Skill Oriented Courses organized during the Academic Year: 2022-23 (CSE)

| S.No. | Title | Name of the Resource Person | Audience | No of Participants | Date (From -to) |
|---|---|---|---|---|---|
| 1. | SOC on Advanced Python Programming | Dr. V Venkateswara Rao, Dr. K Shirin Bhanu, Mr. R L Phani Kumar and Mr. M S Kumar Reddy from SVEC Mr. Y V R P S Sastry, Research Scholar - NITANP | III SEM CSE-C&D | 144 | 25/04/2023 to 29/04/2023 |
| 2. | SOC on Advanced Python Programming | Dr. V Venkateswara Rao, Dr. K Shirin Bhanu, Mr. R L Phani Kumar and Mr. M S Kumar Reddy from SVEC Mr. Y V R P S Sastry, Research Scholar - NITANP | III SEM CSE-A&B | 145 | 24/04/2023 to 28/04/2023 |

## Workshops/Skill Oriented Courses organized during the Academic Year: 2022-23 (CST)

| S.No. | Title | Name of the Resource Person | Audience | No. of Participants | Date (From -to) |
|---|---|---|---|---|---|
| 1. | SOC on AWS Academy Solutions | Mrs. D S L Manikanteswari, Asst. Professor, CSE DEPT Mrs. M S Radha | IV SEM CST | 70 | 13/03/2023 to 18/03/2023 |

| | | | | | |
|---|---|---|---|---|---|
| | Architect | Mangamani, Asst. Professor, CSE DEPT | | | |

## Conferences Publications during Academic Year:2022-23

| S.No. | Name of the Faculty | Name of Conference Attended | Paper Entitled with | No. Of Days | From Date | To Date |
|---|---|---|---|---|---|---|
| 1. | M.Baburao | 7th International Conference on Intelligent computing and computer systemsICICCS-2023 | Novel Feature Model IoT based street light system for energy conservation | 03 | 17/05/2023 | 19/05/2023 |
| 2. | G.Loshma | International Conference on Artificial Intelligence and Smart Communication | A Review on Breast Cancer Detection for Histopathology Images Using Deep Learning | 01 | 06/04/2023 | 06/04/2023 |
| 3. | P.Ramamohan Rao | 2nd International Conference on Data Science and Artificial Intelligence | Automating Curriculum Vitae Recommendation Process through NLP | 02 | 24/04/2023 | 25/04/2023 |
| 4. | Dr. D Jaya Kumari | 2nd International Conference on Data Science and Artificial Intelligence | Automating Curriculum Vitae Recommendation Process through Machine Learning | 02 | 24/04/2023 | 25/04/2023 |
| 5. | K Praveen Kumar | | | | | |
| 6. | P.Ramamohan Rao | | | | | |
| 7. | P.Ramamohan Rao | 2nd International Conference on Data Science and Artificial Intelligence | Providing Security Properties of Cloud Service Using Rest API's | 02 | 24/04/2023 | 25/04/2023 |
| 8. | A.Leelavathi | International Conference on Engineering, Social, Science and Humanities -ICESSH-2023 | Role of Artificial Intelligence in Agriculture | 01 | 12/03/2023 | 12/03/2023 |

# SRI VASAVI ENGINEERING COLLEGE (Autonomous)

PEDATADEPALLI, TADEPALLIGUDEM-534 101

Department of Computer Science & Engineering (Accredited by NBA)

## Placements Selected Students List (CSE)

(Batch: 2019-23, Academic Year: 2022-23)

| S. No | Roll No. | Name of the Student | Company | No.Of Students got Selected | Package | Nature of Drive | Date |
|---|---|---|---|---|---|---|---|
| 1 | 19A81A0506 | BHAVARAJU SATYA SUBRAHMANYAM | **TECH DEMOCRACY** | **1** | **4 LPA** | **OFF CAMPUS** | **27-04-2023** |
| 2 | 19A81A0530 | MADDALA LALITHA SIVA JYOTHI | **CADSYS** | **2** | **3.3-3.43 LPA** | **ON CAMPUS** | **07-04-2023** |
| 3 | 19A81A05O1 | SATHI SRIJA | | | | | |
| 4 | 19A81A0526 | KODAVATI SAI SIREESHA | **FACE PREP** | **2** | **3.06 LPA** | **OFF CAMPUS** | **06-04-2023** |
| 5 | 20A85A0514 | KOTHA SHANMUKHA LAKSHMI | | | | | |
| 6 | 19A81A0510 | EJJUROTHU SHARMIKA PRIYA | **MPHASIS** | **10** | **3.25 LPA** | **ON CAMPUS** | **25-03-2023** |
| 7 | 19A81A0514 | RATNA SATYA HARSHINI GANTA | | | | | |
| 8 | 19A81A0578 | DEVARASETTI BALA VENKATA MANI RAJA | | | | | |
| 9 | 19A81A05C6 | ARUNA CHALAMCHARLA | | | | | |
| 10 | 19A81A05E4 | CHINTADA AMALA | | | | | |
| 11 | 19A81A05H9 | PURAM SATYA SANTHOSH KUMAR | | | | | |
| 12 | 19A81A05K2 | DEVATHA SURYA SAI PHANI KAMESWARA RAO | | | | | |
| 13 | 19A81A05O4 | SUTHARAPU SHIREESHA | | | | | |
| 14 | 19A81A05O6 | TAMMISETTI MURALI VENKATA KRISHNA | | | | | |
| 15 | 20A85A0502 | LOKESH ARJAMPUDI | | | | | |
| 16 | 19A81A0574 | BUSARAPU TEJA SRI RAMA SARITHA | **DELOITTE** | **7** | **4.5 LPA** | **OFF CAMPUS** | **23-03-2023** |
| 17 | 19A81A0577 | DEVALLA LEELA MADHURI | | | | | |
| 18 | 19A81A0582 | GUGGILAPU KUMARI SRI ANUSHA | | | | | |
| 19 | 19A81A05G3 | MARAM DEVI MOUNIKA | | | | | |
| 20 | 19A81A05P5 | CHIMMANA KHYATHI SRI | | | | | |
| 21 | 19A81A05F9 | KODAMANCHILI S P KALYANA KRISHNA | | | | | |
| 22 | 20A85A0522 | SUNDARANEEDI DIVYA SRI LAKSHMI | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 23 | 19A81A05N4 | VAISHNAVI PERUMALLA | **STANDARD CHARTERED GBS** | **1** | **8.25 LPA** | **OFF CAMPUS** | **17-03-2023** |
| 24 | 19A81A0514 | GANTA RATNA SATYA HARSHINI | **CARELON GLOBAL SOLUTIONS** | **8** | **4.5 LPA** | **ON CAMPUS** | **09-03-2023** |
| 25 | 19A81A0518 | GORRIPATI SATYA PUJITHA | | | | | |
| 26 | 19A81A0536 | MODALAVALASA ISWARYA | | | | | |
| 27 | 19A81A0542 | PEELA LAVANYA LALITHA PAVANI | | | | | |
| 28 | 19A81A0580 | GAYAM BHAVITHA | | | | | |
| 29 | 19A81A0584 | INAVALLI REVATHI | | | | | |
| 30 | 19A81A05E7 | GARAGAPARTHI LAVANYA | | | | | |
| 31 | 19A81A05J3 | ADABALA CHELCY LAVANYA | | | | | |

## Placements Selected Students List (CST)

(Batch: 2019-23, Academic Year: 2022-23)

| S. No | Roll No. | Name of the Student | Company | No.Of Students got Selected | Package | Nature of Drive | Date |
|---|---|---|---|---|---|---|---|
| 1 | 19A81A0640 | MIDATANI VENTAKA YAMUNA | **[24]7** | **1** | **2.4-3.0 LPA** | **ON CAMPUS** | **05-08-2023** |
| 2 | 19A81A0657 | SANNIDHI R N S S SASHANK | **CADSYS** | **1** | **3.3 LPA** | **ON CAMPUS** | **07-04-2023** |
| 3 | 19A81A0655 | SAGI DHANA GAYATHRI | **DELOITTE** | **1** | **4,5 LPA** | **OFF CAMPUS** | **23-03-2023** |
| 4 | 19A81A0655 | SAGI DHANA GAYATHRI | **CARELON GLOBAL SOLUTIONS** | **1** | **4.5 LPA** | **ON CAMPUS** | **09-03-2023** |

# INDUSTRY INTERNSHIP DETAILS (CSE)

(2022-23)

| S.No | Student Name | Roll Number | Title | Name of the Industry | Role/Technology | Duration | Stipend |
|---|---|---|---|---|---|---|---|
| 1 | Y.Trisali | 19A81A05J1 | Intern | Gaman Software Solutions Pvt.Ltd | Java Developer | 08-02-2023 to 05-05-2023 | |
| 2 | S.Varshitha | 19A81A0550 | Intern | Seneca Global | Software Engineer | 30-01-2023 to 30-04-2023 | |
| 3 | M.Devi Mounika | 19A81A05G3 | Intern | | | | |
| 4 | B.Vasavi | 19A81A05D6 | Intern | | | | |
| 5 | K.G.D.B.Santosh | 19A81A0594 | Intern | | | | |
| 6 | Mouni Siri | 19A81A0548 | Intern | DEVPIXEL | INTERN | 25.01-2023 TO 30-04-2023 | 45,000/- |
| 7 | S.Prameela | 19A81A05N9 | Intern | Aviso Software India LLP | INTERN | 18-12-2022 to 18-03-2023 | 20,000/- |

# INDUSTRY INTERNSHIP DETAILS (CST)

(2022-23)

| S.No | Student Name | Roll Number | Title | Name of the Industry | Technology/Role | Duration | Stipend |
|---|---|---|---|---|---|---|---|
| 1 | K.CHOMU DURGA | 19A81A0628 | Intern | Seneca Global | Software Engineer | 30-01-2023 to 30-04-2023 | |
| 2 | G.VAMSI KRISHNA | 19A81A0620 | Intern | | | | |
| 3 | K.C.DURGA | 19A81A0628 | Intern | | | | |

# JOURNAL PUBLICATIONS (2022-23)

| S.No. | Name of the Staff | Title of the Publication | Publication Details | INDEXING SCI/SCOPUS/ OTHERS | Impact Factor |
|---|---|---|---|---|---|
| **1.** | Dr.V.S.Naresh | Smart self-power generating garbage management system using deep learning for smart cities | Microprocessors and Microsystems,Volume98,104816, https://doi.org/10.1016/j.micpro.2023.104816 April 2023. | SCI | 3.503 |

# List of Events Conducted Academic Year: 2022-2023

| S.No | Date | Service Activity Details | Venue |
|---|---|---|---|
| 1. | 20/03/2023 | The team of SAHAYA donated examination stationary for **Gurukula patasala** 10th class students at pedatadepalli. Its cost is **Rs. 6550/-** (Rupees six thousand five hundred fifty only). | Dr B R Ambedkar Gurukula Patasala, Pedatadepalli |
| 2. | 10/03/2023 | The team of SAHAYA donated Rs. **17550/-** (Rupees seventeen thousands five hundred and fifty only) to **Mr. Venkateswara rao**. He is one of our bus drivers' son-inlaw. | Sri Vasavi Engg. College, TPG |

# CERTIFICATIONS (2022-23)

## The following are the Certifications attended by the faculty during the A.Y:2022-2023

| S.NO | Name of the faculty | Name of the Course certificate Attended | Certification Authority | Duration | Date |
|---|---|---|---|---|---|
| 1. | P.Ujwala Sai | Introduction to internet of things | NPTEL | 12 Weeks | Jan-Apr 2023 |
| 2. | P.Rajesh | Introduction to internet of things | NPTEL | 12 Weeks | Jan-Apr 2023 |
| 3. | D.Sasi Rekha | Introduction to Database Systems | NPTEL | 12 Weeks | Jan-Apr 2023 |
| 4. | N.Hiranmayee | Learn python:Ultimate Crash Course for Beginners-2023 | udemy | 01 | 29.04.2023 |
| 5. | N.Hiranmayee | Data Mining | NPTEL | 8 Weeks | Jan-Mar 2023 |
| 6. | P.Ujwala Sai | Data Mining | NPTEL | 8 Weeks | Jan-Mar 2023 |
| 7. | Dr.D.Jaya Kumari | Java Script | Infosys and Springboard | 01 | 21.03.2023 |
| 8. | Dr.D.Jaya Kumari | HTML5-The Language | Infosys and Springboard | 01 | 21.03.2023 |

# The Genomic Revolution: Unveiling the Secrets of Life

## Introduction:

In recent years, the field of genomics has undergone a revolution, unveiling the secrets of life hidden within the DNA of every living organism. Genomics is the study of an organism's complete set of DNA, including all of its genes and their functions. It allows scientists to understand the complex interplay between genes, the environment, and human health. This article explores the significance of genomics, its applications in various fields, and its potential to transform healthcare and beyond.

## Understanding Genomics:

Genomics encompasses the study of an organism's entire genetic material, providing invaluable insights into its structure, function, and evolution. By analyzing and sequencing genomes, scientists can identify and study individual genes, understand their roles in disease susceptibility, and develop targeted therapies.

## Applications in Healthcare:

Genomics has the potential to revolutionize healthcare by enabling personalized medicine. By analyzing an individual's genetic makeup, doctors can predict disease risks, tailor treatments, and make informed decisions about the most effective medications for patients. Genetic testing for inherited disorders, such as cystic fibrosis and breast cancer, has already become a routine part of healthcare, allowing individuals to take proactive measures for prevention and early intervention.

## Ethical Considerations:

While genomics offers tremendous promise, it also raises ethical considerations. The handling of genetic information necessitates privacy protections, as the misuse or unauthorized access to this data can lead to discrimination and infringement on individual rights. Ensuring informed consent and implementing robust data security measures is paramount to maintaining public trust and safeguarding genetic privacy.

## Conclusion:

The field of genomics has ushered in a new era of understanding the intricacies of life. Its applications in healthcare, agriculture, forensics, and beyond hold immense promise for improving human well-being and advancing scientific knowledge.

**Karri Lakshmi Shanu Abhinaya**
**21A81A05M9**

# Vaccine Hesitancy

Vaccine hesitancy refers to the reluctance or refusal to vaccinate despite the availability of vaccination services. It is a complex and multifaceted phenomenon influenced by various factors. Understanding these factors is crucial for designing effective strategies to promote vaccination.

## HERE ARE SOME KEY REASONS BEHIND VACCINE HESITANCY AND EFFORTS TO ADDRESS THEM:

### MISINFORMATION AND MISCONCEPTIONS:

- Reason: Spread of inaccurate information and myths about vaccines can lead to misconceptions and fears.
- Efforts: Public health campaigns, educational programs, and partnerships with credible sources are used to counter misinformation. Social media platforms and influencers are often engaged to disseminate accurate information.

### DISTRUST IN VACCINES AND HEALTHCARE SYSTEM:

- Reason: Some individuals may distrust vaccines or the institutions providing them due to historical events, perceived conflicts of interest, or lack of transparency.
- Efforts: Building trust through transparent communication, involving community leaders, and addressing concerns openly can help mitigate distrust.

### COMPLACENCY:

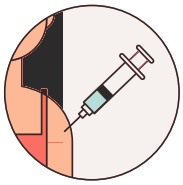
- Reason: In situations where a disease is perceived as low-risk, individuals may not see the need for vaccination.
- Efforts: Highlighting the importance of vaccination, even for seemingly low-risk diseases, and emphasizing the potential severity of preventable illnesses can combat complacency.

## CONVENIENCE AND ACCESS ISSUES:

- Reason: Limited access to vaccination services or inconvenience in terms of time, location, or cost can contribute to hesitancy.
- Efforts: Improving access to vaccines by providing vaccination clinics in convenient locations, reducing cost barriers, and offering flexible hours can enhance vaccine uptake.

## RELIGIOUS OR PHILOSOPHICAL BELIEFS:

- Reason: Some individuals may refuse vaccination due to religious or philosophical beliefs.
- Efforts: Respecting diverse beliefs while providing accurate information on the compatibility of vaccines with various religious and philosophical perspectives can be helpful.



## FEAR OF SIDE EFFECTS:

- Reason: Concerns about potential side effects, even if rare, can contribute to hesitancy.
- Efforts: Communicating the safety profile of vaccines, emphasizing the rarity of serious side effects, and providing information on the benefits of vaccination can address these fears.

## SOCIAL AND CULTURAL INFLUENCES:

- Reason: Social norms and cultural influences within communities can shape attitudes toward vaccination.
- Efforts: Tailoring communication strategies to specific cultural contexts, engaging community leaders, and using culturally sensitive approaches can be effective.

## LACK OF AWARENESS:

- Reason: Some individuals may not be aware of the importance of vaccination or the availability of vaccines.
- Efforts: Public awareness campaigns, educational initiatives, and routine communication about vaccination schedules can help increase awareness.

Efforts to promote vaccination often involve a combination of education, communication, community engagement, and policy interventions. Public health officials, healthcare providers, and community leaders play critical roles in addressing vaccine hesitancy and ensuring widespread vaccine acceptance for the benefit of individual and community health.

P.Vijaya
21A81A0543

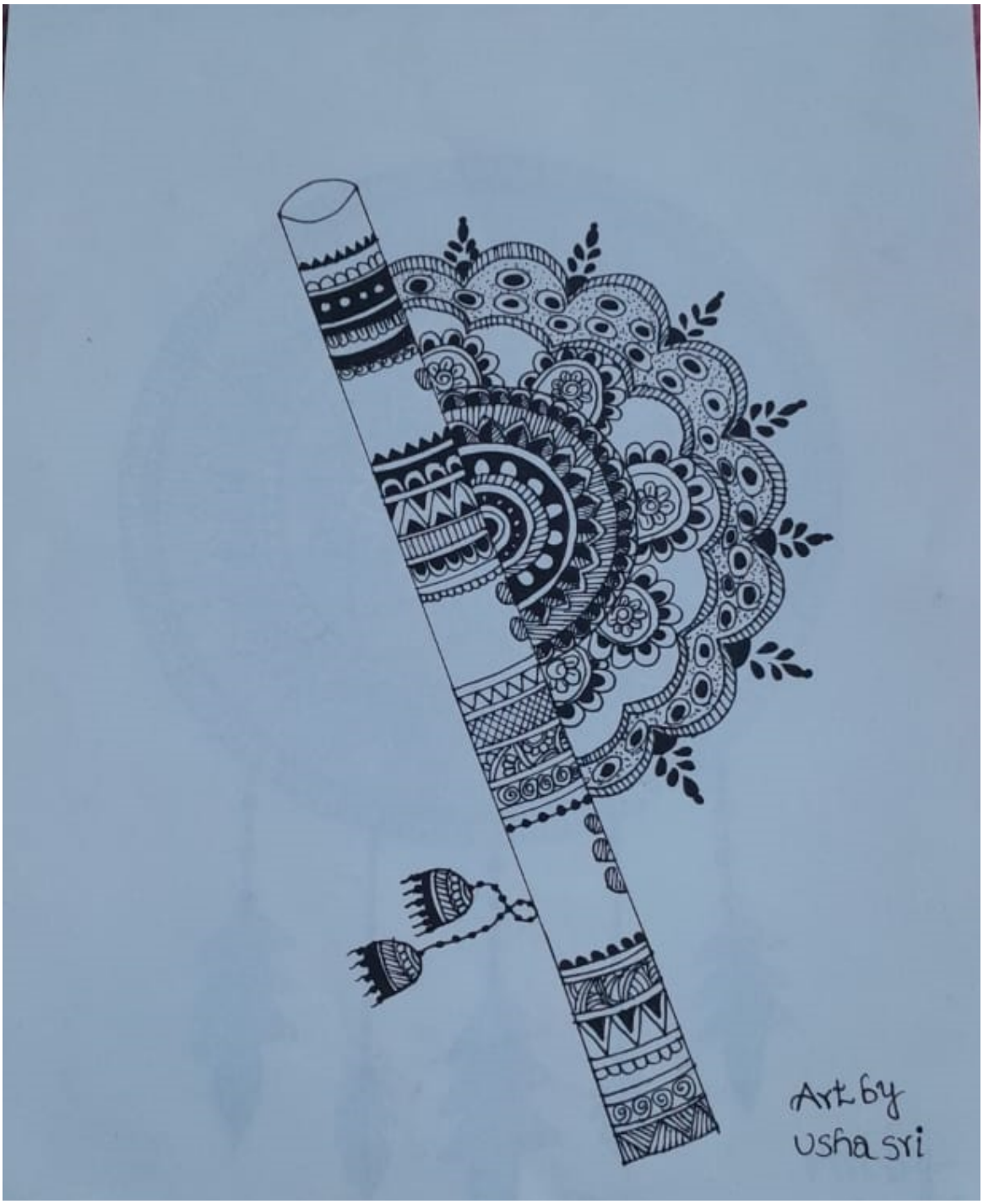
# Photography

CH. S. S. S. PUJITHA
21A81A0607

A . H A R I T H A
2 1 A 8 1 A 0 5 0 1

# Arts

R . A K S H A Y A
2 1 A 8 1 A 0 5 5 0




U . U S H A S R I
2 1 A 8 1 A 0 5 5 8

# CODE SNIPPETS

## Program to print prime numbers from 1 to N

```
1. for (int i = 2; i * i <= num; i++){
2. }
3. }
4. if (num <= 1){
5. printf("Enter a number N: ");
6. printf("%d ", i);
7. }
8. return 0;
9. int main() {
10.return 1;
11.for (int i = 2; i <= N; i++) {
12.printf("\n");
13.}
14.scanf("%d", &N);
15.if (num % i == 0) {
16.}
17.#include <stdio.h>
18.return 0;
19.}
20.printf("Prime numbers between 1 and %d are:\n", N);
21.int isPrime(int num) {
22.int N;
23.}
24.if (isPrime(i)) {
25.return 0;
```

Options:

a) 14, 6, 3, 25, 10, 1, 22, 8, 18, 20, 15, 9, 2, 16, 11, 24, 13, 17, 19, 21, 23, 4, 7, 5, 12

b) 17, 21, 4, 8, 7, 1, 15, 18, 13, 16, 10, 19, 9, 22, 5, 14, 20, 11, 24, 6, 23, 2, 12, 25, 3

c) 13, 15, 20, 14, 11, 8, 6, 25, 22, 18, 2, 23, 12, 16, 5, 9, 4, 3, 7, 17, 21, 24, 1, 19, 10

d) 25, 14, 7, 22, 12, 19, 20, 2, 18, 6, 21, 24, 8, 15, 9, 13, 23, 16, 1, 11, 10, 5, 3, 4,17

## Program to print Factorial of a given number

```
1. if (n == 0 || n == 1) {
2. printf("Enter a non-negative integer: ");
3. } else {
4. return n * factorial(n - 1);
5. scanf("%d", &number);
6. }
7. int main() {
8. printf("Factorial of %d = %llu\n", number, factorial(number));
9. unsigned long long factorial(int n) {
10.return 1;
11.return 0;
12.}
13.int number;
14.#include <stdio.h>
15.}
```

Options:

a) 7, 3, 12, 1, 6, 10, 5, 9, 14, 4, 15, 11, 8, 13, 2

b) 5, 13, 10, 7, 2, 14, 12, 3, 6, 11, 4, 8, 15, 1, 9

c) 14, 9, 1, 10, 3, 4, 6, 12, 7, 13, 2, 5, 8, 11, 15

d) 8, 11, 2, 14, 1, 13, 4, 9, 10, 3, 7, 6, 5, 15, 12