



AGNEL POLYTECHNIC, VASHI

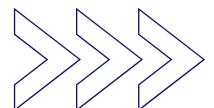


METAVERSE

Artificial Intelligence
and Machine Learning

Volume - 03





ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Vision

“

Produce competent diploma engineers in Artificial Intelligence and Machine Learning through quality education focused on holistic development to contribute significantly towards the national growth.

”

“

Mission

- To develop skilled professionals in the field of Artificial Intelligence and Machine Learning by providing industry oriented quality education
- To inculcate human values and ethical principles to cater to the societal needs.
- To develop technical skills in-line with current industry trends through effective teaching and industry-institute interaction

”



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Echoes of Creativity

- POEMS
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TEARS ARE EVERYWHERE

All the tears, carving their way through my eyes,

All the sins, all the happiness,

All the trauma lies in these skies.

Sigh! Don't know what has happened...

Just want these holy tears

To find their way through my eyes!

Flowing like a crystal cascade,
Making this filthy body feel light.
In this upside-down world of mine,
Everything is just black and white.

all my tears striving
to make my blurry eyes;
but suddenly there was a ray
of hope that made me arise!

Remember, it was just a bad day,

You are the traveler.

Don't shed your 'holy tears',

Create your own way..!

After crying a lot,
I saw those swollen, fluffy eyes—
As big as a football in size.
It made me laugh and reminded me
That everything has its own price.

Then, just a thought clicked—

Even in the moment of birth,

Everyone is full of tears!

And even in the moment of death,

Everyone is full of tears!

What an absurdity of this world...

Tears are everywhere !!



Name: Aryan Shedge

Class: AN4K

गर्दीतला एकटेपणा

पहिला स्पर्श आईचा,
त्या निस्वार्थी मनाचा.
दुसरा होता बाबांचा,
जबाबदाऱ्यांनी भरलेल्या हातांचा.

एवढ्यात कधी मोठा झालो,
दुनियेमध्ये कधी रुक्क्लो
हे कळलेच नाही,
ह्या मायाजाळातून सुटणे आता शक्य नाही.

आईबाबांच्या लेकराला
आता वेळ मिळेना,
हे जबाबदाऱ्यांचं ओङ्ग
त्याला सांभाळता येई ना.

जबाबदारीत रंगून गेलो,
हळूहळू हरवत गेलो.
सारे काही सावरत सावरत,
शेवटी गर्दीतही एकटाच राहिलो!



Name: Payal Patil
Class: AN4K

जिंदगी !

बड़ी भीड़भाड़ सी जिंदगी है,
कोई अपनो के तलाश में है,
कोई अपनो से रुठें हुए है।

और मैं?

मैं तो अपनो के पास होके भी पास नहीं
दिल के खास होके भी कुछ खास नहीं!!
जो रुठा हुं मैं खुदसे अब मुझे अब तो खुदकी
तलाश तक नहीं



Name: Payal Patil
Class: AN4K

आई..

आईच्या चेहऱ्यावर अनंत कथा लपलेल्या,
तिच्या साया जणू आपल्याला न दिसलेल्या.

तिच्या हातांची गोडी आणि तिचं प्रेम,
तिच्या डोळ्यात डुंबणारी काळाची वळणं जसं स्वप्न.

तिच्या गप्पा आणि गोड हश्याच संगीत,
हे जीवन जणू तिच्या अस्तित्वाच संकेत.
पिढ्यान पिढ्या तीचं प्रेम बदलत नाही,
तिचा स्पर्श जणू आकाश आणि पृथ्वी एकाच वळणावर
येते.

माझ्या अपूर्णित तीच आहे पूर्णता,
तिच्या कुशीत मीच आहे सृष्टीची सुगंधी वळसा.
तिच्या संघर्षाची कधीच कल्पना नाही होऊ शकत,
पण ज्यामुळे च मी आज जाऊ शकतो रिझवायला स्वप्न.

आई, तूच आहेस त्या प्रकाशाचा स्त्रोत,
तुझ्या प्रेमा विना संसार नाहीच अस्तित्वात.
तुझ्या अस्तित्वात नांदतो जीवनाचा गीत,
आई, तूच आहेस माझं सर्वश्रेष्ठ आणि प्रेमपूर्ण ध्रुव.



Name: Aditya Mule
Class: AN2K

अपयशः का खरंच आहे इतकं गंभीर?

एका अपयशाच्या पोटी,
मिळवलेलं सगळं यश तू विसरलास का?
ह्या अपयशाला मिळवलेल्या सगळ्या यशापेक्षा
महत्त्वाचं बनवून तू बसलास का?
पुन्हा तेच तेच आठवून,
ह्या विचारांच्या वादळात तू सापडलास का?
अरे, किती तू आतल्या आत झडशील,
तेवढ्याच हळूहळू तू फिकटशील.
प्रत्येक क्षण जणू थांबलेला,
प्रत्येक पाऊल जणू घड्याळाची तीच टिक टिक,
नकळत पुन्हा एका नवीन अपयशाकडे
नेत तर नसेल ना?
मागे पाहतो तर दिसे अंधार,
पुढे पाहतो तरही दिसे अंधार,
मात्र दिसत नसे उद्याचा प्रकाश.
जरी थंडीत रात्र मोठी असली,
तरी पुन्हा सूर्य उगवतोच ना!
हो, मान्य आहे की मिळालं नसेल ते महत्त्वाचं यश,
पण अजून फुंकले गेले नाही काळाचे शंख.
तूही कधी खोलशीलच तुझे पंख,
आरोहण वेल आधार घेऊन उभी राहतच ना!
तसंच तूही या अपयशाला
आधार बनवून रहा उभा खंबीर,
अजूनही वाटतो का अपयशाचा विषय गंभीर?



Name: Prithviraj Desai

Class: AN6I



ती हो म्हणेल काय ?

मला ती खूप आवडते,
मी ही तिला आवडतं असेन का ?
पहिलं प्रेम आहे माझं ती,
पण , ती हो म्हणेल काय ?

सुंदर आहेत तिचे डोळे, तिचे केस आणि चेहरा तिचा,
फक्त दुरूनच पहावा लागेल काय ?
अनोळखीच आहे अस्तीत्व माझं तिच्यासाठी
तरी , ती हो म्हणेल काय ?

रेखाटलीयेत मी सुंदर स्वप्ने ,
तिला ती रंगवायला आवडतील काय ?
समुद्रकिनारी फिरायचंय तिचा हात हातात घेऊन,
पण , ती हो म्हणेल काय ?

पहिल्या पाऊसाच्या पहिल्या सरी नंतर,
मृदा पुन्हा गंधाळेलं काय ?
मोगन्याच्या गजरा तिच्या केसांत माळायचाय ,
पण , ती हो म्हणेल काय ?

कुठेतरी लांब क्षितिजापलीकडे
आभाळ जमिनीला भेटत असेल काय ?
प्रेम करेन मी शेवटच्या श्वासापर्यंत ,
पण , ती हो म्हणेल काय ?

शेवटचं वर्ष आहे माझं कॉलेजच ,
माझ्या भावनांना मला व्यक्त करता येईल काय ?
एकतर्फीच प्रेम आहे माझं ,
पण , ती हो म्हणेल काय ?

तिचं माझ्या जीवनात येणं अशक्य आहे ,
पण एकदा तरी वाळवंटात वसंत बहरेल काय ?
शेवटी विचारेन मी तिला खूप धाडस करून ,
पण , ती हो म्हणेल काय ?



Name: Aditya Rajage
Class: AN6I



ELAPSED TIME RELAPSED

Birds chirping resonates the hands of clock
ticking by.

The stars in the night I see are mere headlights.
The threads woven together are just wires
entangled forever.

Flock of feathers are just drones in this weather.
The morning mist dew drops has turned into
smog news talk.

The pristine sea is no longer calm and clear to see.
The rage of clickbait has escaped the cage of
debate.

The power of greed and lust has let the man
surrender into dust.

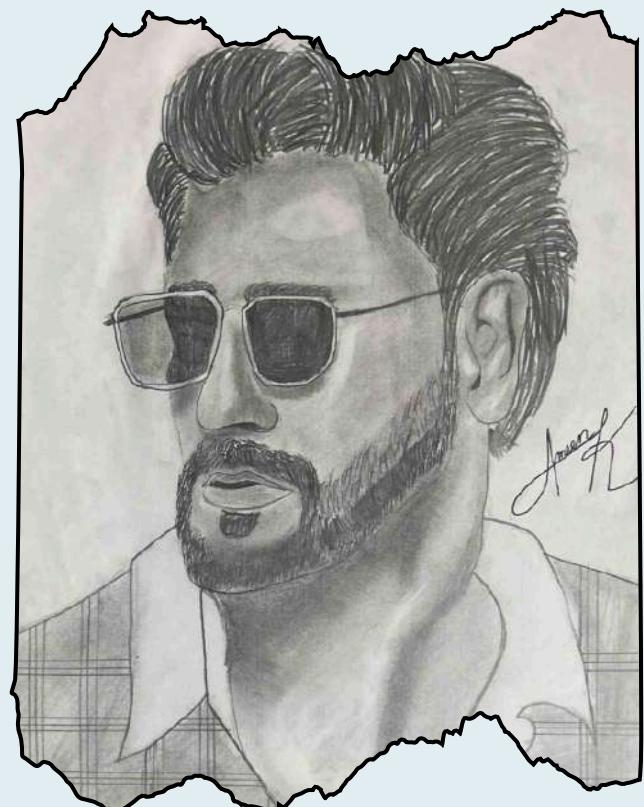
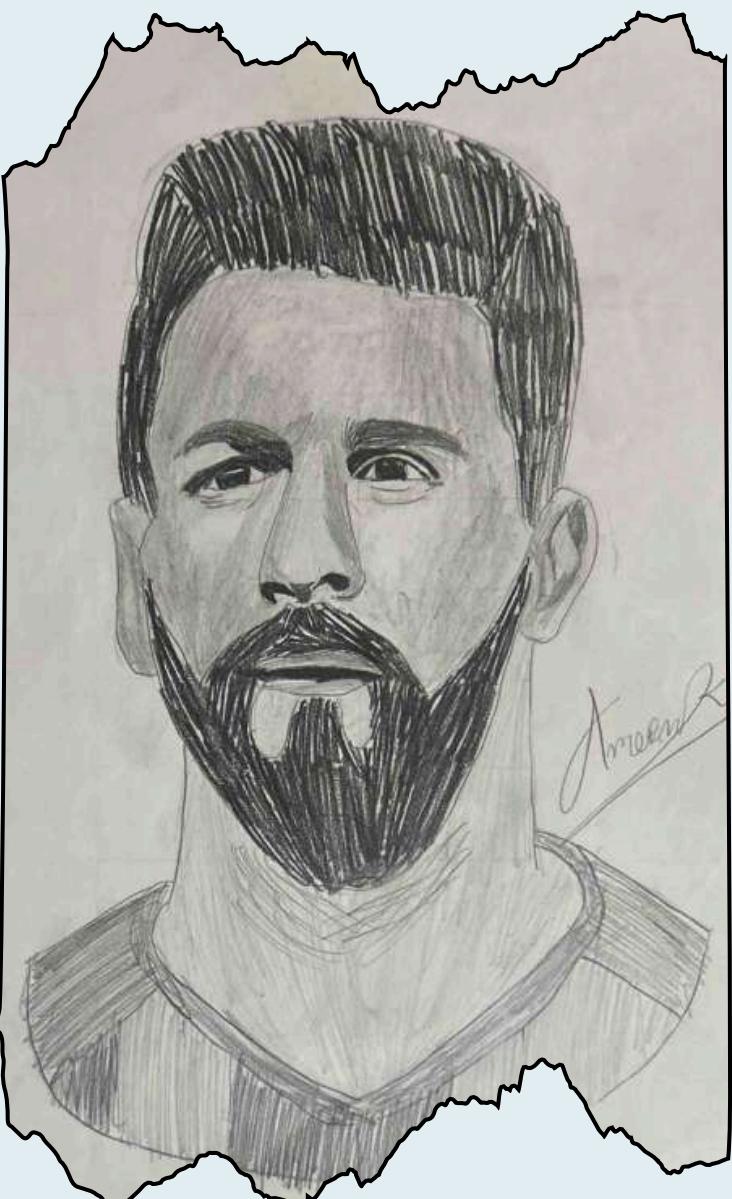
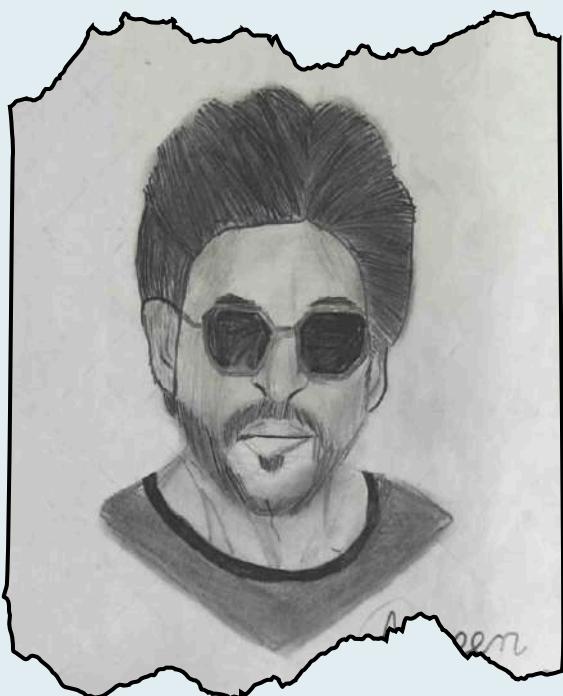
Thus the life of you and me lays upon the mercy
of our own deeds.

Will the new metaverse replace or surge a new
universe?



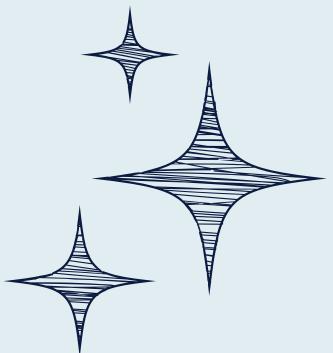
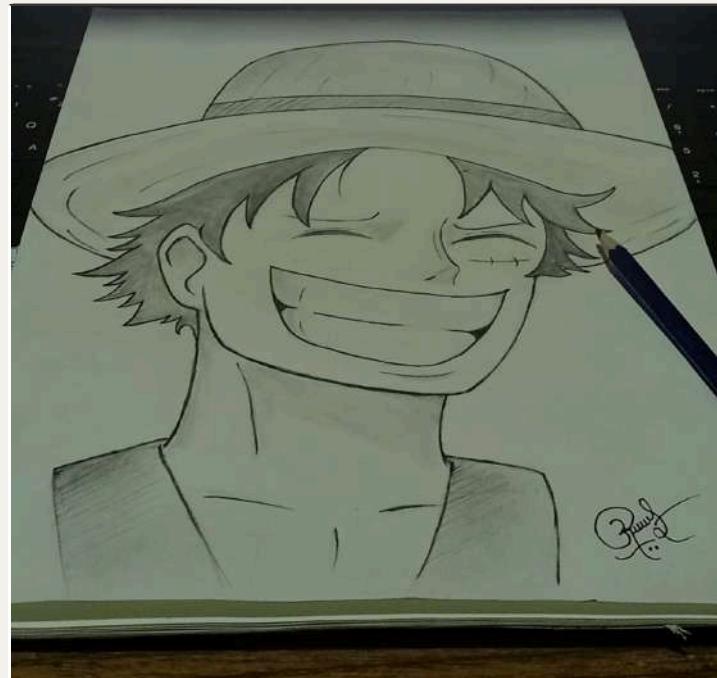
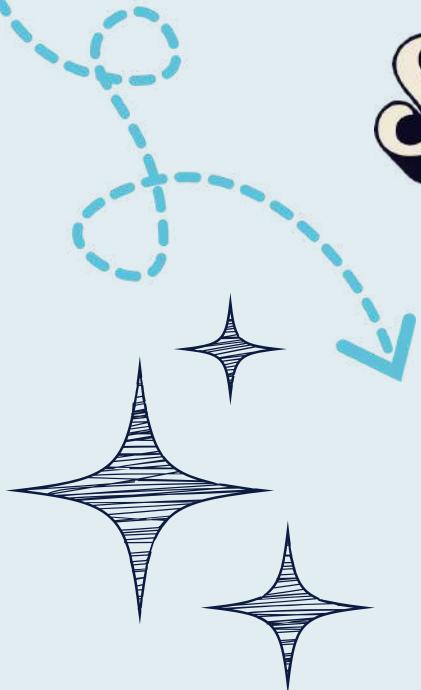
Name: Sharona Antony
Class: AN4K

SKETCHES



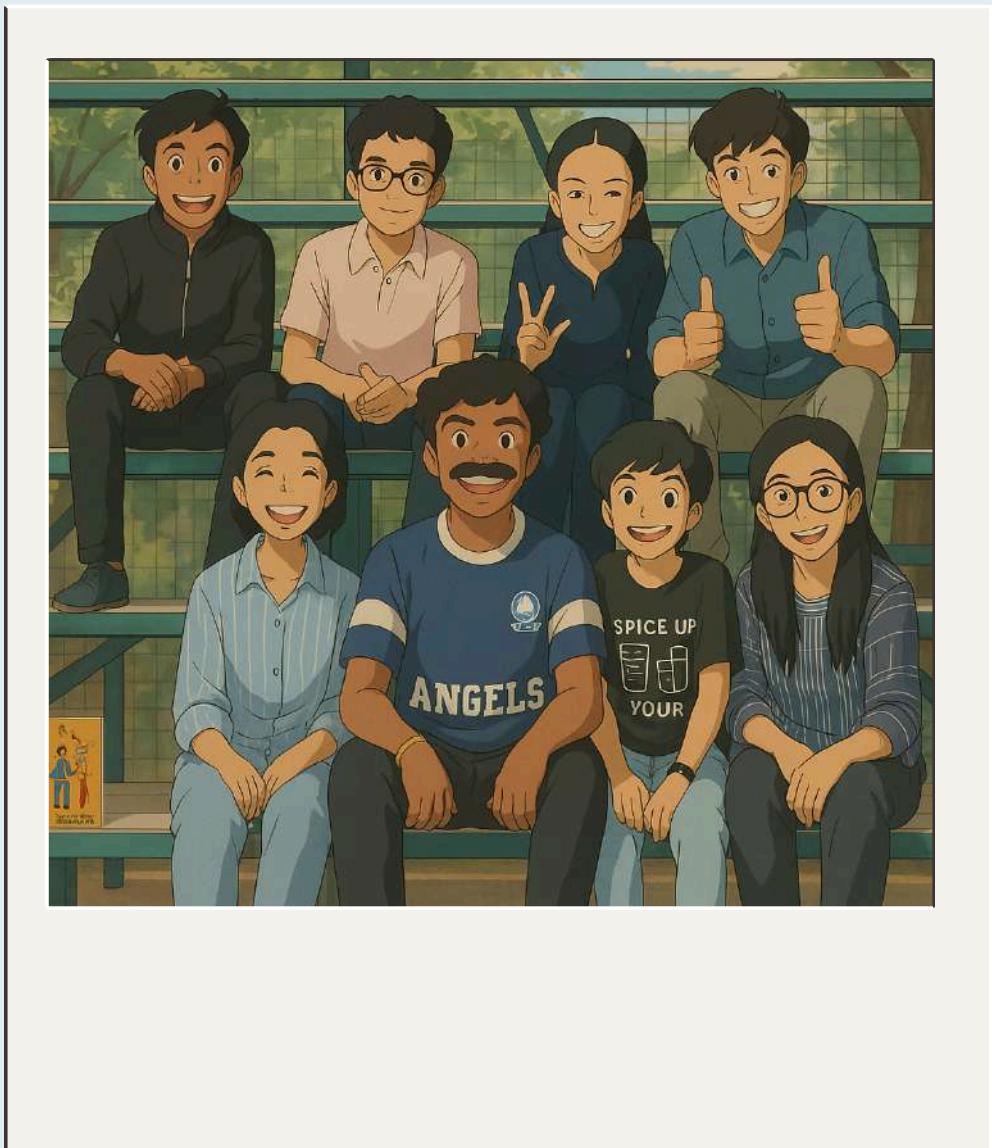
Name: Ameen Khanzada
Class: AN4K

SKETCHES



Name: Aryan Shedge
Class: AN4K

Ghibli Art

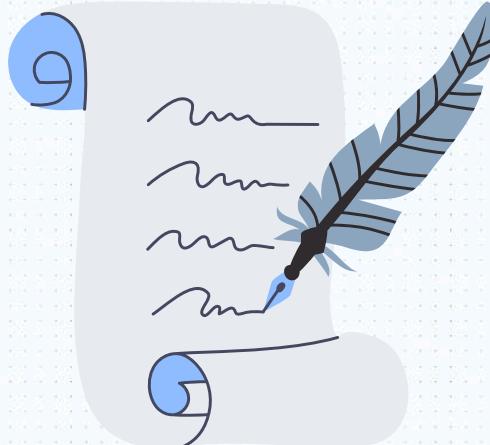


Name: Soham Dhanokar
Class: AN4K

THE WRITERS WHO REDEFINED THE NORM

What is literature? We often hear this word, but do we truly understand its essence? According to William Shakespeare, "Literature is the mirror of life," reflecting the thoughts, emotions, and experiences of humanity. It shapes, challenges, and deepens our understanding of the world. Throughout history, some writers have broken away from traditional methods of storytelling. These unconventional thinkers didn't just tell stories—they redefined how we see the world. By pushing boundaries and confronting uncomfortable truths, they reshaped literature, philosophy, and human emotions. This article explores some of the greatest literary outsiders, such as Franz Kafka, a master of alienation and Sylvia Plath. Their work challenged traditional norms and gave voice to feelings of anxiety, isolation, and the search for meaning, offering readers a mirror to their own struggles and the complexities of life.

Was this curse or blessing? Perhaps it was both—Kafka's burden became his art making him one of the literature's most enigmatic and influential figures...



Franz Kafka: The Master of Alienation
"You are the knife I turn inside myself; that is love, that, my dear, is love."

This quote reveals Kafka's exploration of the darker side of love—the self-destructive nature of human emotions. Through his works, Kafka sought to give a voice to those who felt alienated, trapped, and burdened by the absurdity of life.

His writings generally revolved around themes of alienation, bureaucracy, and the absurdity of existence. He demonstrated how life could be meaningless but encouraged the reader to look for meaning amidst the chaos.

Kafka's works are very personal; his relationship with his domineering father had shaped most of his struggles. In *The Metamorphosis*, we see the hopelessness of human existence. In *Letter to His Father* he explores themes of bureaucratic absurdity, existential dread. His *Letter to His Father* reveals how his dysfunctional family had affected his whole existence.



**Name: Devika Sharad
Awate
Class: AN2K**

Sylvia Plath: "Confessional Poet"

***"I write only because there is a voice within me
that will not be still."***

This sentiment captures the driving force behind every writer who can pour their soul onto paper, bleeding ink from their hands when their voice cannot find an audible whisper.

Plath's work explores the raw and uncomfortable truths of life, often delving into themes of identity, womanhood, and the suffocating weight of societal expectations.

In her novel *The Bell Jar* and her poetry, she crafts an intimate meditation on the struggles of existence, revealing the depth of her fears and desires.

Her writing does not turn away from the pain or complexity of living but lays them bare with startling honesty.

When you are reading her, it feels as though she is laid bare of all defenses and is offering her inner world in its most vulnerable form. Plath's voice, though born of turmoil, resonates with this timeless, universal humanity that still captivates readers today

THE KINDLE MAN



"Fifty-five". A word which haunts me every night. Bus number 55 takes me home from my college and vice versa. NMMT Bus 55 is like that sudden stroke of happiness which hits you when you least expect it and vanishes just as quickly. God alone knows how many hours I have spent waiting for the AC Bus. Though its jam packed most of the time, you might get a dusty back seat if you are lucky enough. Apparently, I was lucky enough every day. The far-right back seat of the bus was always empty, probably because of the non-functional AC which turned the seat into a hotpot.

I sat there every day, looking at the world from behind the glass window, at a height. Felt like a jungle safari. Every day I had a new neighbour. Sometimes the noisy kid who got off the next stop, or the friend group who gossiped about the love life of one of their absent colleagues. Yes, I listened to them gossiping while pretending to listen songs.

On one such lazy & gossip less day, a man sat beside me. He was big and had white hair. I adjusted myself ever so slightly and went back to my dystopian land. I noticed he pulled out a kindle. Interesting, I thought.

Never saw anyone reading on an NMMT bus before, which, to be honest, was understandable. The crazy potholes and speedbumps would allow one to do nothing but close their eyes and hope they don't throw up.

I peeked into his kindle, and I am glad I did. My eyes scanned few familiar words like 'Bruno' and 'Pyjamas'. I immediately knew what he was reading, yet I asked to strike a conversation. "The Boy in stripped Pyjamas", he said. Of course, it was my only favourite book by John Boyne. In fact, it was the first book we read in our literary club at agnels.

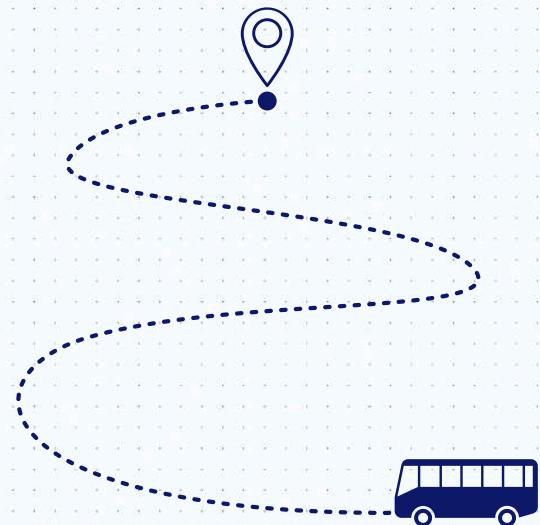
The man left, but his presence lingered. The conversation we shared about the book rekindled my love for literature.



It reminded me of the power of stories and how they connect strangers in fleeting moments. As the bus rolled on, I found myself wondering if he had finished the book, if he felt the same heartbreak I did when reading it for the first time. Then I realized, I could not recall the last time I picked up a book. I was so busy with 'life', that I forgot I could read. I left a part of me behind.



Name: Arsalan Khan
Class: AN-2K



The guilt made me read the first thing I could find: 1984- George Orwell. The book was complex, and I was unfocused. I worked out that I could not read the same way I did before. Reading even 3 pages without checking my Instagram notifications felt like a tedious task rather than a relaxing activity it once was. It felt as if I had lost a superpower. Regardless, I pushed myself. Thankfully, I am in a much better place now.

Bus number 55 and that strange man really flipped a switch in my head. That bus isn't just a mode of commute; it's a vessel carrying many untold stories, and I wonder if mine is one of them.

ते एक शेवटचे झाड

“
गुरुने दिला ज्ञानरूपी वसा ,
”

आम्ही चालवू हा पुढे वारसा

ते एक शेवटचे झाड

वाह! ऐकलंस ना असाच वारसा पुढे चालवत चालवत आपण इथवर आलो आहोत. अरे! आज तू तुझी मशीन नाही आणलीस? रोज त्या मशीन मध्ये प्राणवायू गोळा करून घेऊन जातोस, दमत असशील ना? आज थोडी विश्रांती घे, माझ्याजवळ बस, मी तुला माझी कहाणी सांगतो. साधारण 50 वर्षांपूर्वी माझा जन्म झाला; मी मूळचा इथला नव्हे, माझा जन्म अलिबागला झाला. तिथे माझी लहान-लहान मित्रमंडळी होती. रोज सायंकाळी ते माझ्या परिसरात खेळायला येत असत, कोणी लपाछपी तर कोणी क्रिकेट खेळत असत. त्यात पिंटू माझा खास मित्र होता, एकदा क्रिकेट खेळताना त्याच्याकडून चुकून पाटील काकांच्या घराची काच फुटली आणि तो माझ्या मागे येऊन लपला, तिथेच आमची गट्टी जुळली. हल्लीची मुलं मोबाईल सोडून कुठे जातच नाही, बाहेरचं वातावरण ही तसं राहिलं नाहीच म्हणा आणि तिकडेही आता ती चाळ तोडून एक उंच इमारत तयार झाली आहे. मी ऐकले, की तिथे आता “झाड” असे म्हटले की लोकांना मीच आठवतो; रोज अगदी विशेष असल्यासारखं लोक मला बघायला येतात, मला नवल वाटते. हे काय ते “डोम” बसवल्यापासून पशुपक्ष्यांचे माझ्यापाशी येणे कमी झाले आहे. डोम म्हणजे काय? तर प्राणवायू जमा करण्यासाठी आता मला एका काचेत ठेवले आहे, त्या काचेला डोम म्हणतात.

किती पावसाळे पाहिले मी, आधीचे हिरवेगार जग आणि आत्ताचे ढगाळ वातावरण यात काही साम्य नाही. आता प्राणवायू विकला जातो तेव्हा तो फुकट होता. माझ्या प्रजातीतील मी एकटा राहिलो तर आता माझी इतकी काळजी घेतली जाते पण तेव्हा मात्र कोणीच आमच्याकडे लक्ष दिले नाही. मी तुला सांगतो, तेव्हाचे जग काही निराळेच होते. आता हे लोक माझ्या जवळ यायला सुद्धा पैसे भरत आहेत, तेव्हा काय “मी असूनही नसल्यासारखाच होतो”. “वटपोर्णिमा” आणि “होळी” यासारखे सण तर आता बायकांना ठाऊकही नसतील. “सात जन्म एक पती हवा” म्हणून पतीला नव्हे तर या मलाच सात फेच्या घालून ढागाने बंदिस्त करत असत, आता मात्र येऊन फोटो काढून निघून जातात. तुला सांगतो, एकदा म्हात्रे वहिनींनी अगदी माझ्या नाकावरच धागा गुंडाळला होता, बापरे गुदमरून मेलो असतो मग?

मी आता म्हातारा झालो. इकडे धड पाऊस नाही; धड ऊन नाही, सगळीकडे फक्त कार्बनचे राज्य आणि हे सगळे “आर्टिफिशल औषधे” घेऊन घेऊन माझी तब्येत, दिसत जरी बरी असली तरी मी आतल्याआत मरत चाललोय. मानवी जगातला हा एवढा मोठा बदल बघताना आणि त्यात जगताना मला सुद्धा वाईट वाटतं, पण आता काय करणार? कोणत्याही गोष्टीचा अतिरेक हा बरा नसतोच ना. मी आहे तोवर काळजी करू नका आणि नवनवीन शोध लावत रहा, जेवढे राहिले आहे तेवढ्या पर्यावरणाची काळजी घ्या, त्याला जपा, चल आता मी येतो! काळजी घे!



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POWER OF MEDITATION - HARNESSING THE INNER STRENGTH

In our busy lives, with constant demands from work, family to do our best and considering personal commitments too, we are continuously juggling tasks, meeting deadlines and striving to meet expectations, often at the cost of our well-being and health. It's very easy to get disconnected from ourselves and this leaves very little room for rest, reflection and self-care. Giving yourself some time to pause, breathe and be present is not selfish - but necessary. When you make some time for yourself, you are actually allowing your mind and body to recharge. This is where the concept of meditation comes in.

Meditation is nothing but a practice where individuals just sit with their eyes closed, keeping aside all their tasks and they reflect on their thoughts. This time is specially taken to experience quietness, listen to the external sounds of nature and focus on how we breathe in and out. It involves focusing or clearing your mind using a combination

If mental and physical techniques .Some are:

- Body centered meditation :- It involves paying attention to the parts of your body and bodily sensations in a gradual sense from feet to head either by sitting or lying down.

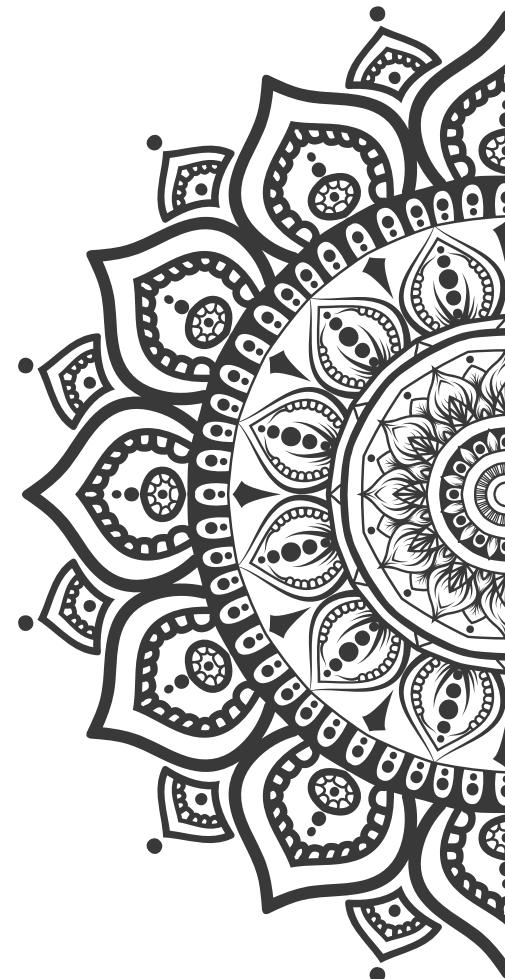
- Mantra meditation :- It involves repeating a sacred sound, word or phrase to focus the mind and promote relaxation.
- Meditation with movement :- A way of bringing together movement and the focused mind. Here, you select an activity you enjoy like walking, yoga or even cleaning the house and pay attention to the feeling of your feet on the ground, movement of your joints and the breath.
- Mindfulness meditation :- Here we sit comfortably with a relaxed posture and focus on our breath for a few minutes.



Be it any kind of meditation, you can increase the time gradually.

Meditation provides numerous benefits like it relieves stress and helps you get better sleep. We experience an improved ability to think, concentrate and act judiciously. It helps lengthen and increase attention, also improves memory. Meditation encourages self reflection that is allowing you to learn and recognize from mistakes. When you take time each day to meditate, you reflect on your thoughts and actions, gain insights from it on areas of improvement and thereby foster personal growth by self.

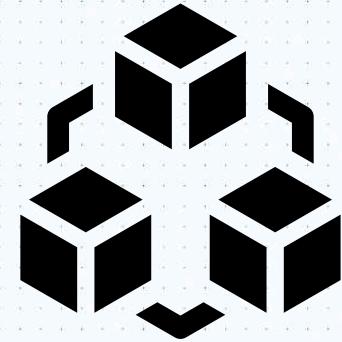
In conclusion, Meditation is not a destination, but a journey of enhancing yourself. It doesn't require a special power or skill, anyone can do it. The key is to start now, don't wait for the perfect moment to start meditating. Commit to a few minutes each day by gradually increasing the time and notice it's transformative impact on your mind, body and spirit. Ending with this, though it's just as essential, be present, be patient, be gentle, be kind.



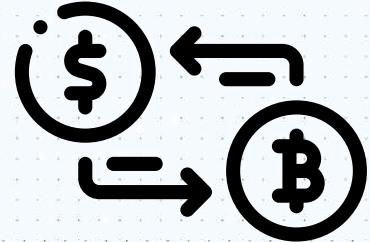
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FUTURISTIC FRAMEWORK

- TEACHERS ARTICLES
- ABSTRACT OF WINNERS OF THE TPP
- PROJECT ARTICLES



BLOCKCHAIN INVESTMENT



Ever wonder if there's an easier way to complete transactions without dealing with mobile wallets, banks and third party applications. Well, it's possible with Blockchain. Many ways a transaction could fail due to technical issue, from bankside, accounts get hacked, transfer limit and may be additional charges associated with transaction. To solve these problems Cryptocurrency came into existence. Cryptocurrencies are a form of digital or virtual currency that run on a technology known as Blockchain.

Cryptocurrencies are immune to counterfeiting, it doesn't require a central authority and protected by strong and complex algorithms. In market thousands of cryptocurrencies are available like Litecoin, Monero, Ethereum and Bitcoin

Here every transaction is made authorized by using the digital signature of the owner, because of it the transaction get authenticated and safeguards it from anyone's interference. Hence, the information the digital ledger contains is highly secure. For anyone looking for speedy and convenient transactions, Blockchain technology offers this as well. Generally, it requires only few minutes, whereas other transaction methods can take several days to complete.

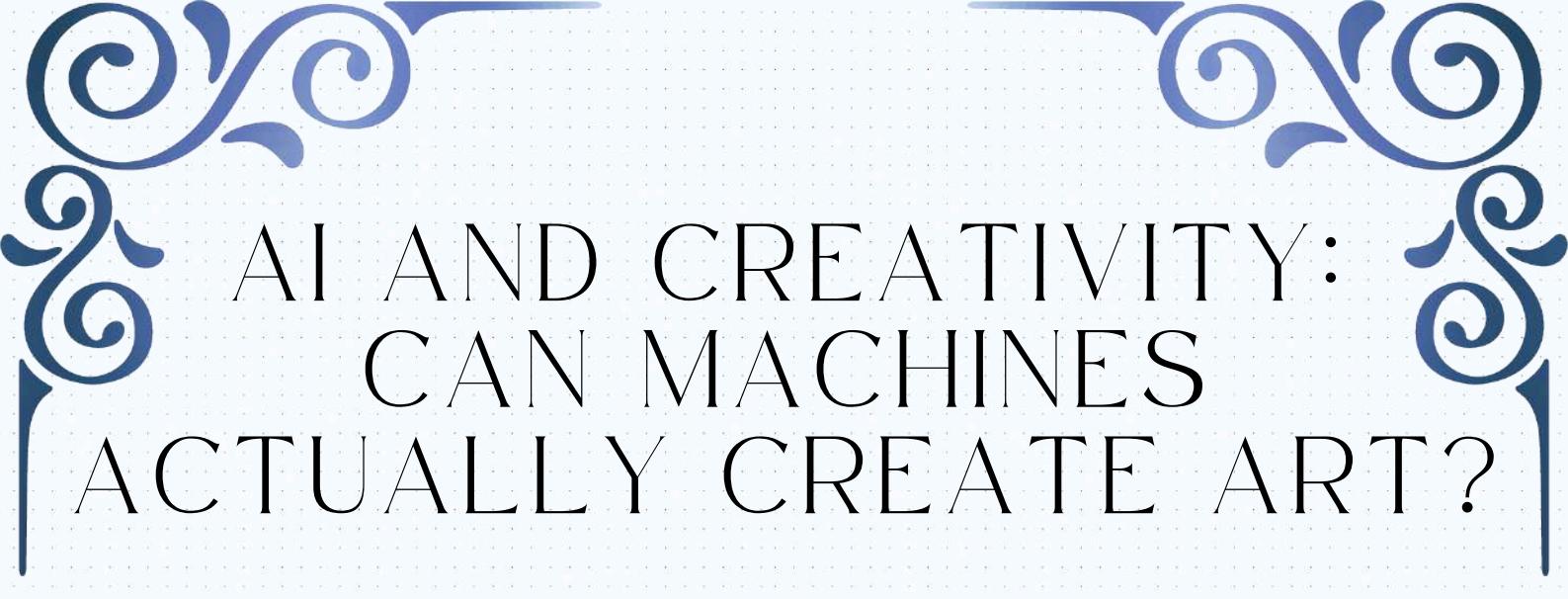
So Many Scammers are waiting outside to steal your money using any way possible to them. Here are some things to know to steer clear of a crypto.

No legitimate resource is going to ask you to send crypto currency in advance - not to buy something, and not to protect your money. That's always a scam. Don't believe in quickly and easily money in the crypto markets. If you meet someone on a dating site or app, and they are showing too much interest in your investment in crypto, or asks you to send them crypto, that's a scam.

Don't be the weakest link in chain, stay safe online and stay secure offline.



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AI AND CREATIVITY: CAN MACHINES ACTUALLY CREATE ART?

Introduction

The concept of machines producing art was previously limited to science fiction. But with the development of artificial intelligence (AI), this has become a reality. AI-generated paintings, music pieces, and even poems are now being recognized in the art world. But can AI be creative, or is it just imitating human creativity? This piece delves into the crossroads of AI and creativity, investigating how machines produce art and whether they can ever be as original as humans.

How AI Makes Art

AI makes art mostly using deep learning algorithms, which scan large datasets and learn patterns. Some of the most notable AI models for creating art are:

Generative Adversarial Networks (GANs) -

These are two neural networks: one produces new content, and the other criticizes it for realism. This method has been employed in AI-created paintings such as "Portrait of Edmond de Belamy," which sold for \$432,500.

Neural Style Transfer (NST) -

This process enables AI to transfer the style of one image (e.g., Van Gogh's "Starry Night") onto another to produce original, stylized artwork.

Natural Language Processing (NLP) Models -

Artificial intelligence models such as OpenAI's GPT can create poetry, narratives, and scripts, illustrating linguistic creativity.

AI Music Composition -

AI software such as Google's Magenta and AIVA create original music based on patterns learned from classical pieces.

Can AI Be Truly Creative?

Creativity has been most described as the capacity to create original and significant work. While AI may be able to create stunning results, it has no real intent and emotional complexity—two most essential aspects of human creativity. AI is based on data and algorithms instead of personal experiences and feelings, which are the bases of human creative art.

But AI can be used to help and stimulate human creativity. Artists today work with AI to try out new artistic techniques, combining human instinct with the output of machines. Musicians, for instance, use AI compositions as a starting point for their music, while digital artists use AI to come up with individual visual content.

The Ethical and Philosophical Debate

The emergence of AI art poses some ethical and philosophical issues:

Authorship and Ownership – If an AI generates a painting or a song, who has the rights to it? The programmer, the user, or the AI itself? This is a legal gray area that remains contentious.

Human vs. Machine Artistry – Can a work of AI be of the same worth as a human one? Critics say that art is something extremely human, but others are of the opinion that AI broadens the meaning of creativity.

The Future of Human Artists – With AI that can create art quickly and at scale, will human artists lose their jobs? Most experts are of the opinion that AI will complement and not replace human creativity, serving as a tool and not a competitor.

Conclusion

AI has certainly transformed the world of creativity, demonstrating that machines can create breathtaking visual art, music, and literature. But real creativity is more than recognizing patterns—it takes imagination, emotional resonance, and personal experience. While AI can aid, inspire, and even provoke human creativity, it is still a tool and not a creator with its own mind. Rather than displacing artists, AI is creating new horizons in art, allowing for unprecedented collaboration between humans and machines.

The question then becomes, as technology keeps moving forward, will AI eventually be able to outdo human imagination, or will it always reflect the information it learns from? Only time can tell.



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AI-ASSISTANCE FOR THE VISUALLY IMPAIRED

Abstract

The growing complexity of indoor environments, such as malls, airports, and hospitals, presents substantial navigation difficulties for individuals with visual impairments. Traditional mobility aids, such as canes and guide dogs, offer some assistance but lack the technological advancements required to navigate complex indoor spaces effectively. This project proposes an AI-driven solution designed to bridge this gap by leveraging modern technologies such as object recognition, speech-to-text, and text-to-speech conversion to facilitate real-time navigation. The proposed system ensures enhanced mobility, reduced caregiver dependence, and greater inclusivity, ultimately improving the quality of life for visually impaired individuals.

Introduction

Visually impaired individuals often face significant challenges when navigating indoor environments. Unlike outdoor settings, where GPS and tactile paving provide assistance, indoor locations lack universal accessibility solutions. Malls, airports, hospitals, and office buildings frequently have dynamic layouts, moving objects, and obstacles that hinder safe mobility.

This project aims to address these challenges by providing an intelligent, AI-powered navigation system that enables visually impaired individuals to move independently and confidently in such environments. The system is designed to be user-friendly, affordable, and seamlessly integrated into daily life through a wearable device such as a wrist-worn accessory.

Necessity

Mobility is a fundamental aspect of human independence, and for the visually impaired, limited mobility can lead to increased dependency on caregivers, social isolation, and restricted access to essential services. The necessity of an AI-based navigation system stems from the growing need for an advanced, intuitive, and real-time guidance solution that does not rely solely on human assistance. The system is designed to enhance safety, improve accessibility, and foster inclusivity by allowing users to navigate indoor environments without relying on external help.

Target Users and Application

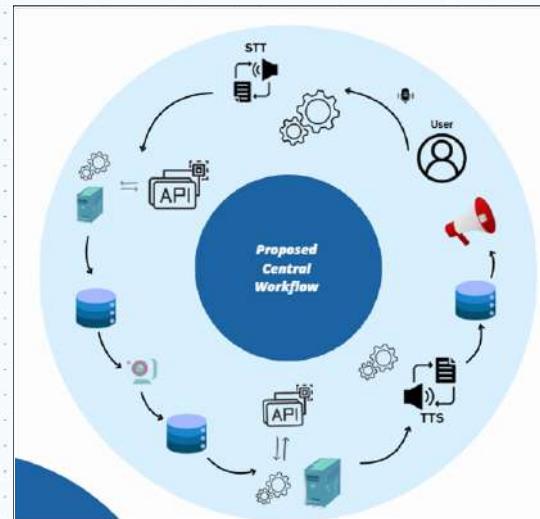
This solution is tailored for visually impaired individuals of all ages who require assistance in navigating complex indoor environments. It is beneficial for both personal use and institutional applications in public buildings, educational institutions, healthcare facilities, shopping centers, and transit hubs. The system offers real-time navigation support, making it an essential tool for improving the mobility and independence of visually impaired users in a variety of settings.

Technology Stack Used

The project employs a combination of hardware and software to ensure seamless and efficient operation:

Hardware Components:

- Single Board Computer (SBC): Raspberry Pi to serve as the processing unit.
- Indoor Positioning Hardware: Wi-Fi routers and sensors for precise location tracking.
- Webcam: High-definition camera compatible with the SBC for real-time image processing.
- Speaker: Compact and small speaker for delivering auditory feedback.
- Microphone: Sensitive microphone for capturing voice commands.
- Server-Side Processing Unit: Manages complex computations for object recognition and navigation assistance.
- Feedback Mechanism: Vibration motors to provide additional haptic feedback.
- Casing and Cooling System: Ensures optimal performance and device longevity.



Software Components:

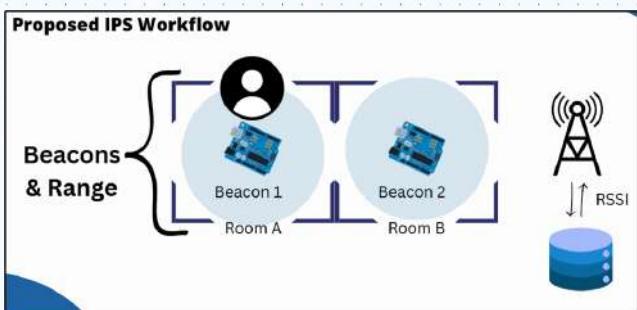
- Apache HTTP Server: Handles API communication between the device and the server.
- Server OS: Debian-based distribution (Ubuntu) for robust server-side operations.
- API Stack: JSON-based data passing for structured and efficient communication.
- Postman: Used for API testing and debugging.
- YOLO Object Recognition Model: Enables real-time object detection for navigation assistance.
- NLP Agent: Processes user commands and contextualizes responses.
- TTS & STT Agents: Convert text to speech and speech to text for effective interaction.
- Stream Processing: Manages complex tasks handled by the server in real time.

Output

The output of the system is a combination of real-time auditory and haptic feedback. Users receive precise verbal instructions regarding their surroundings, obstacles, and pathways. Additionally, the device provides subtle vibrations to reinforce navigation directions, ensuring ease of use in various environments.

Conclusion

The envisioned AI-powered indoor navigation system redefines mobility for visually impaired individuals by merging state-of-the-art obstacle detection, object recognition, and seamless audio guidance. This innovative solution transforms complex indoor environments into accessible spaces, significantly enhancing the confidence, safety, and independence of users. By leveraging affordable and advanced technology, the system aspires to be a game-changer in assistive navigation, ultimately improving the quality of life for visually impaired individuals across the globe.



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INTEGRATING ML AND DIGITAL TWIN FOR QUALITY CONTROL IN MANUFACTURING

ABSTRACT –

Ensuring the quality and reliability of manufactured products is a significant challenge in the manufacturing industry. This paper proposes an innovative solution by integrating machine learning (ML) models with digital twin systems for real-time quality control in manufacturing processes. The digital twin system creates a virtual replica of the physical manufacturing environment, enabling continuous monitoring and control. By employing advanced ML algorithms, the system can detect defects and anomalies in real-time, thereby enhancing product quality and process efficiency.

The proposed system utilizes a combination of sensors, IoT devices, and ML models to gather and analyze data from the manufacturing process. The digital twin system provides a comprehensive visualization and control interface, allowing operators to interact with the virtual model and make data-driven decisions. Experimental results demonstrate that the integrated system achieves high accuracy in defect detection, reducing material waste and rework costs.

This research highlights the potential of combining ML and digital twin technologies to transform traditional quality control methods. The system's scalability and adaptability make it applicable across various manufacturing domains, paving the way for smarter and more efficient manufacturing processes. By leveraging real-time data and predictive analytics, the integrated system ensures consistent product quality, leading to improved customer satisfaction and competitive advantage.

Keywords – Machine Learning (ML), Digital Twin (DT), Quality Control, Defect Detection, Real-time Monitoring, Smart Manufacturing, Predictive Analytics.



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Machine Learning and Natural Language Processing

Introduction

This paper by Dhruv G. Bangani and Swara T. Hande from Agnel Polytechnic, Vashi, explores the growing impact of Machine Learning (ML) and Natural Language Processing (NLP), two essential subfields of Artificial Intelligence (AI). AI, often described as the simulation of human intelligence in machines, relies on intelligent agents capable of perceiving, processing, and acting on their environment. ML and NLP play a crucial role in enhancing these agents by enabling them to learn from data and understand human language.

What is ML and NLP ?

Machine Learning is categorized into supervised, unsupervised, semi-supervised, and reinforcement learning. Supervised learning uses labeled data for classification tasks, while unsupervised learning uncovers hidden patterns in unlabeled data. Semi-supervised learning combines both, and reinforcement learning allows agents to learn through interaction and feedback. NLP, on the other hand, focuses on understanding and generating human language through tasks like morphological

analysis, syntactic analysis, semantic analysis, discourse analysis, and pragmatic analysis. These tasks help machines interpret text and audio data, making NLP models essential in applications like translation, sentiment analysis, and speech recognition.

The paper highlights the interconnectedness of ML and NLP, with deep learning models like transformers revolutionizing NLP tasks. It also examines the use of ML and NLP in facial recognition (FR), emphasizing the importance of explainable AI (XAI) for interpretability and transparency. By leveraging NLP-based models like BERT and the Probabilistic Interpretable Comparison (PIC) score, FR systems can improve accuracy and accountability.

Applications of NLP include automatic summarization, machine translation, optical character recognition (OCR), part-of-speech tagging, and named entity recognition (NER). The paper concludes by acknowledging the transformative impact of ML and NLP while emphasizing the need for further advancements and optimization to unlock their full potential in real-world applications.



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AI-POWERED REAL-TIME SURVEILLANCE SYSTEM FOR ENHANCING WOMEN'S SAFETY

A Step Towards Proactive CCTV Solutions

"Safety is not an option, it's a right – AI can make it a reality."

Introduction

In the evolving landscape of modern society, ensuring public safety, especially for women, has become a critical concern. Traditional CCTV systems, though widely used, are predominantly reactive – functioning mainly as evidence collection tools. Our project aims to revolutionize this approach by embedding Artificial Intelligence (AI) into surveillance, transforming CCTV systems from passive observers into active guardians.

Motivation

Before embarking on the technical development, we conducted a survey and examined multiple research papers related to AI-based surveillance. These insights helped us design a solution that is resource-efficient yet highly effective, ensuring feasibility even on low-end hardware.

System Overview

Our AI-Powered Real-Time Surveillance System leverages a combination of Computer Vision, Machine Learning, and Deep Learning to detect suspicious activities and potential violence in real-time.

The system's workflow is as follows:

1. Object and Activity Detection

Using the YOLOv5m model, both pre-trained and fine-tuned on custom datasets, our system accurately detects objects and individuals in real-time video streams.

2. Violence Recognition

A hybrid model combining ResNet-34 and LSTM is used for recognizing violent activities. ResNet-34 captures spatial information from video frames, while LSTM processes the temporal sequence of actions, making the system sensitive to suspicious patterns.

3. Alert Generation

Upon detecting violent activity, the system creates a GIF snapshot of the incident and sends it directly to responsible authorities via a Telegram Bot, enabling immediate response.

4. Dataset Preparation

We compiled a custom dataset of over 5000 images sourced from various platforms, further enriched using data augmentation techniques to improve model generalization.

5. Training Infrastructure Given our limited computational resources, we utilized Google Colab and its cloud-based GPU services for training the YOLOv5m, ResNet-34, and LSTM models.

"CCTV is no longer just a witness. With AI, it becomes a guardian."

Challenges Encountered

- Ensuring smooth real-time video processing without latency.
- Fine-tuning deep learning models on a limited dataset.
- Balancing detection accuracy and minimizing false alarms.
- Optimizing system performance for deployment on low-resource devices.

Despite these challenges, we successfully achieved a reliable and efficient surveillance system.

Impact and Applications

This system holds significant potential in enhancing security across various domains such as:

- Public Transportation
- Educational Institutions
- Residential Societies
- Commercial Complexes
- Remote and Under-patrolled Areas

"Empowering communities through intelligent surveillance is no longer a distant future but an achievable present."

Future Scope

- Integration with emergency services for automatic response.
- Detection of harassment, theft, and abnormal crowd behavior.
- Real-time location-based alerts.
- Scalability for city-wide deployment.

Call to Action

With AI at the forefront of surveillance technology, we invite researchers, students, and professionals to explore, contribute, and innovate further in this vital area. Our project lays the foundation, but the possibilities for improving public safety through intelligent surveillance are endless.

"From passive monitoring to proactive protection – AI for safer spaces."



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MAKHSTAY (SPONSORED): A VACATION HOME RENTAL PLATFORM

Abstract

MakhStay is a web-based vacation home rental platform designed to connect travelers with property owners. The platform provides an intuitive interface for users to browse, book, and manage vacation rentals. This report discusses the system architecture, key features, technologies utilized, and security measures implemented in MakhStay. By leveraging a robust backend, a well-structured database, and a responsive frontend, MakhStay aims to enhance the vacation rental experience. Future enhancements such as AI-driven recommendations and dynamic pricing models will further optimize the platform, ensuring a smarter and more convenient rental process.

Keywords: Vacation rental, booking system, property management, web platform, online reservation

Introduction

The increasing popularity of online vacation rental platforms has transformed the travel and hospitality industry by providing an alternative to traditional hotels. With the growing demand for short-term vacation rentals, platforms like MakhStay play a crucial role in bridging the gap between property owners and travelers seeking affordable and comfortable stays. MakhStay was developed with the goal of simplifying the booking process while maintaining security and efficiency.

The platform ensures that property owners can easily list their accommodations, while travelers can seamlessly search, book, and make payments in a secure environment. By incorporating modern web development practices, MakhStay offers a streamlined experience tailored to the needs of both hosts and guests.

Methodology

The development of MakhStay relied on a combination of frontend and backend technologies to create a user-friendly and secure platform:

- **Frontend:** Designed using HTML and CSS to provide a structured and visually appealing interface. The responsive layout ensures that users can navigate seamlessly on desktops and mobile devices.
- **Backend:** Developed using PHP, responsible for handling key functions such as user authentication, property management, and booking transactions. PHP enables smooth communication between the frontend and the database.
- **Database:** MySQL is used for efficient storage and retrieval of user details, property listings, reservations, and reviews. It ensures data consistency and integrity across the platform.

- **Development Tools:**

1. **VS Code:** Chosen as the primary code editor for its extensive support for debugging and extensions that enhance development productivity.
2. **XAMPP:** Utilized for local server management, providing an integrated environment for Apache, MySQL, and PHP, enabling efficient testing before deployment.

- **Security Measures:**

- User passwords are encrypted using hashing techniques to prevent unauthorized access.
- SQL injection vulnerabilities are mitigated through the use of prepared statements and strict input validation.
- Cross-site scripting (XSS) protection is enforced by sanitizing user inputs.
- Secure session management ensures safe user interactions.
- Encrypted payment gateways guarantee secure financial transactions between users.

Results and Discussion:

MakhStay provides a feature-rich platform that enhances the vacation rental experience. Property owners can create detailed listings that include images, descriptions, and pricing, allowing them to effectively showcase their accommodations. The system also enables hosts to manage their property availability and update details as needed, ensuring a smooth and organized booking process. To enhance security and trust, MakhStay incorporates a robust user authentication system that includes email verification and encrypted credentials.

This helps prevent unauthorized access and ensures that users interact with verified profiles. Secure payment gateways are also integrated into the platform, allowing guests to complete transactions with confidence, knowing their financial data is protected. Additionally, a review and rating system enables guests to provide feedback about their stays, encouraging property owners to maintain high standards and fostering transparency within the community.

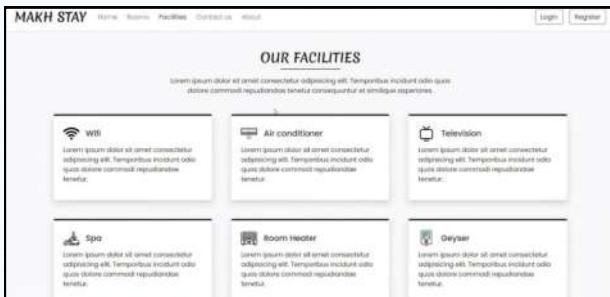
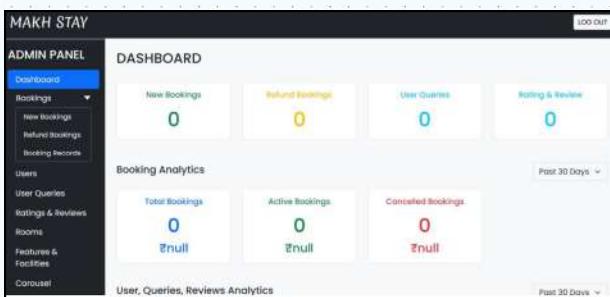
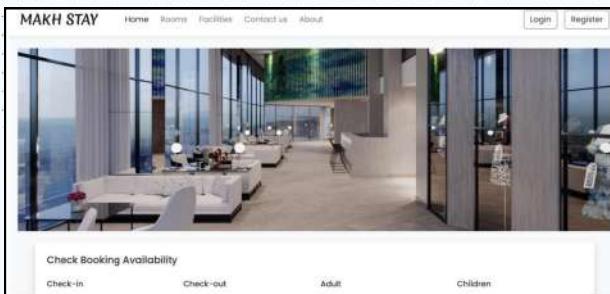
A centralized administrative dashboard is implemented to ensure smooth platform operations. Administrators can monitor user activities, manage property listings, and oversee transactions, making it easier to address issues and maintain the integrity of the platform. Overall, the platform's user-friendly interface, combined with strong security measures and seamless functionality, provides an efficient and reliable vacation rental experience for both hosts and travelers. MakhStay's user-centric design, combined with its secure infrastructure, ensures a smooth experience for both property owners and travelers. The integration of security features protects sensitive user data, while the scalable architecture supports future growth and feature enhancements.

Conclusion and Future Work

MakhStay has successfully developed a secure, efficient, and user-friendly platform that streamlines the vacation rental process. By offering features such as real-time booking, secure payments, and a transparent review system, MakhStay provides a reliable and competitive solution in the rental market.

With continuous improvements and user feedback, MakhStay aims to become a leading player in the vacation rental industry, offering innovative solutions that cater to the evolving needs of hosts and travelers alike.

Website Interface and Design



Name: Saad Darvesh
Class: AN6I



Name: Payal Hasbe
Class: AN6I



Name: Anmol Sonawale
Class: AN6I



Name: Anushka Undale
Class: AN6I



WOMEN'S SAFETY MOBILE APPLICATION (SAFE SAATHI)

Abstract

The Women's Safety Mobile Application (Safe Saathi) is a comprehensive, user-friendly, and highly responsive safety companion designed primarily for women, with future prospects to cater to other vulnerable groups such as senior citizens and children. The app addresses the increasing concerns regarding women's safety and aims to bridge the gap between immediate help and preventive measures using modern technology. It provides real-time emergency response, proactive safety alerts, educational resources, and seamless communication with authorities and trusted contacts, making it a holistic solution for personal safety.

Short Introduction of the Project

The project focuses on developing a cross-platform mobile application that ensures women's safety by providing real-time support during emergencies and creating awareness to prevent such situations. The app offers a combination of emergency, preventive, informative, and educational tools, allowing users to feel safer, stay informed, and be prepared to handle unexpected threats. The solution is designed to be accessible, secure, easy-to-use, and adaptable to future enhancements, such as integration with wearable devices and AI-based predictive alerts.

Necessity

In recent years, crimes against women have increased significantly, underscoring the urgent need for a reliable, easily accessible, and effective personal safety tool. Many women, particularly those who travel alone, work late-night shifts, or live in remote and isolated areas, often find themselves in situations where timely assistance can be life-saving. This application is designed to address these critical needs by providing instant communication with family members and authorities, real-time location tracking for continuous monitoring, and preventive alerts about potential threats in the surrounding area. Moreover, it offers educational resources on self-defense and first aid to empower users with essential knowledge during emergencies. The app also facilitates evidence collection through automatic video and audio backups, which can be vital for legal proceedings and post-incident investigations.

Who It's For

The primary target of this application is women, including working professionals, students, homemakers, and frequent travelers, who are often exposed to potential safety threats in their daily lives.

Recognizing that vulnerability is not limited to women alone, the app is also designed with a future vision to extend its support to senior citizens and young children, ensuring a broader reach and inclusivity. The application aims to serve all vulnerable groups who may face personal safety threats and are in need of quick assistance, preventive safety alerts, and educational guidance to handle emergencies effectively and confidently.

Situations It's For (Explained with Features)

- Login Using Aadhaar: Ensures verified user identity and prevents misuse of the application.
- Real-Time Location Sharing: Helps when traveling alone, walking in unsafe areas, or lost, by sharing live location with family or authorities.
- 1-Click SOS: For immediate danger situations such as harassment, stalking, or kidnapping, triggering alerts to trusted contacts and authorities in one tap.
- Emergency Contacts: Allows quick calls during emergencies without searching for numbers; customizable contact list enhances user control.
- Perimeter-Based SOS: Auto-alerts when entering/exiting predefined danger zones like isolated roads, forest areas, or deserted neighborhoods.
- Announcement About Happenings: Notifies about nearby incidents like thefts, accidents, protests, or unsafe conditions in real-time to help avoid such areas.
- Distress Alert: In threatening situations where shouting isn't possible, a silent distress alert can inform nearby people or app users for immediate help.
- Nearby Amenities: Shows nearby hospitals, police stations, pharmacies, and safe spots based on the user's location for emergency navigation.

· Self-Defense & First Aid Guide (Multi-Language): Educates users to handle emergencies independently with step-by-step self-defense and first-aid tutorials accessible in regional languages.

· Geofencing-Based Alerts: Warns when entering accident-prone, high-crime, or isolated zones using automated geofencing.

· Immediate Video Backup: Auto-records and backs up videos and audio during emergencies for legal evidence even if the device is lost or damaged.

· Mock Call: A faked or mocked call in multilingual languages which allows the user to simulate as an incoming call in emergency situations.

Overview of Tech Stack Used

- Frontend (UI/UX): Flutter (for cross-platform support: Android & iOS)
- Android Native Code: Kotlin (for native Android modules and system-level permissions)
- Backend: Django & Django REST Framework
- Authentication: Aadhaar AUA Integration for secure login
- Database: PostgreSQL with Django ORM
- Location Services: Google Maps API, Geolocation libraries
- Video & Media Handling: Python media libraries + Android native camera modules
- Cloud Storage: Secure Cloud Platform (AWS/GCP) for video backups
- ML Module (Optional): Image Matching and Analysis for future extensions
- Security: End-to-End Encryption, OAuth, Secure APIs

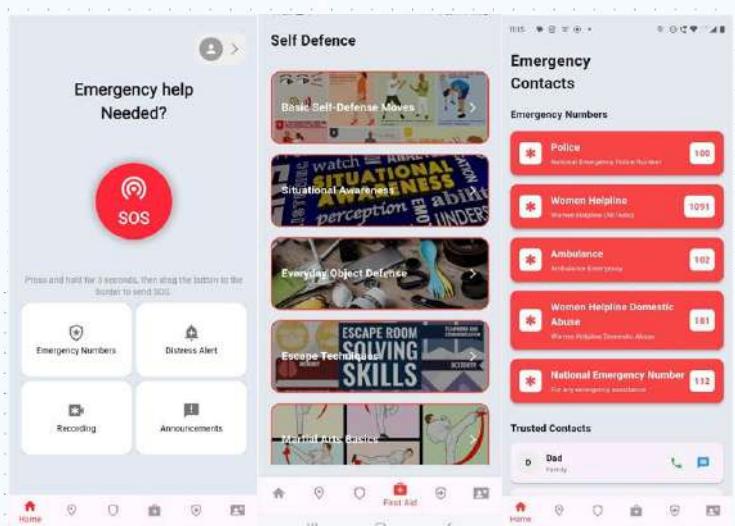
Conclusion

The Women's Safety Mobile Application is more than just an emergency tool—it is a lifeline designed to make users feel empowered, protected, and informed. By combining real-time safety features, educational resources, and community engagement, it not only helps in emergencies but also educates users to handle challenging situations independently. The app, with its future-ready design, has the potential to scale and integrate with wearables, AI-powered alerts, and public safety networks, making it a crucial part of the modern safety ecosystem. It is a step towards ensuring that safety and security are accessible to everyone, everywhere.

Perimeter-Based SOS

Guide for Self-Defense and First Aid

Emergency Contacts (Dialers Trusted Contact)



Name: Harshal Manoj
Mehta
Class: AN6I



Name: Ichchha Rahul
Singh
Class: AN6I



Name: Shravani Shekar
Panchal
Class: AN6I



Name: Ruchil Vinod
Yetuskar
Class: AN6I

AI GENERATED ART: IS IT PROGRESS OR PLAGIARISM?

"I strongly feel that this is an insult to life itself." – Hayao Miyazaki, on AI-generated animation

Impact of Artificial Intelligence on Art in the Modern World

Art is a gift to the artist. It teaches discipline, perseverance, self-awareness, compassion, and offers comfort in the face of grief and loss. Art is a vehicle for self-transformation and self-discovery. It's not the finished piece that transforms the artist, but the act of creating it.

What Is "Real" Art?

Definitions of "real art" vary. Some believe only work created with traditional tools and paper is real. Others agree that as long as a human made it—whether traditionally or digitally—it counts. But what about art generated by AI? Can typing a prompt into a machine and receiving an image be considered art? And more importantly, is the person behind the prompt truly an artist?

This leads us to a deeper question:

Is AI-generated art legal, ethical, and fair? Thankfully, experts are already investigating this complex topic. But while they build frameworks, the responsibility still lies with us—we must decide how we use AI, and whether we use it responsibly.

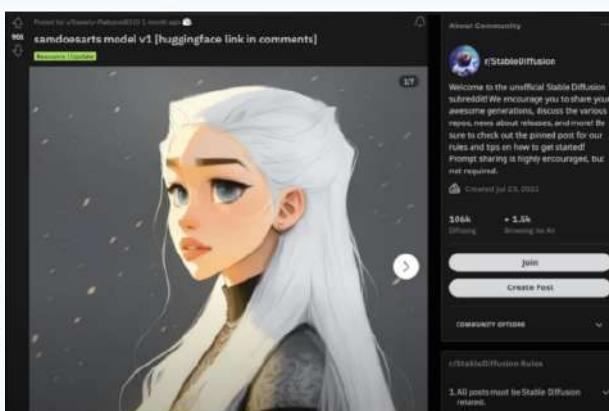
How AI Models Are Trained:

To understand the ethical concerns, we need to examine how platforms like Mid journey, DALL-E, and Stable Diffusion generate images. These models are trained using massive datasets scraped from the internet—a practice called data mining. They rely on millions, sometimes billions, of images and accompanying text descriptions.

This data includes copyrighted material—artwork taken without consent, credit, or compensation. Artists' work becomes raw material for algorithms without their permission or participation.

The Human Cost

Artists have publicly expressed the pain of seeing their work stolen and repurposed by AI. For instance, Sam Yang shared on YouTube how his art was used to train and sell models without his consent. Similarly, Greg Rutkowski's name has appeared over 500,000 times on AI platforms like Stability AI and Mid journey—proof of how widespread the misuse has become.



A Reddit advertisement for virtual models made using AI trained on Sam Yang's work

This environment is suffocating. Many artists live in fear that their unique style will be used to train models that may eventually replace them in their own industries. As a result, they're retreating. They stop sharing their work online. They retreat into closed communities or move behind paywalls. This goes against what art truly is—a way to connect with others. And yet, it's making human artists go into hiding. And the threat isn't limited to visual artists. AI is now creeping into fields like writing, marketing, journalism, analysis, and even coding. Who knows what AI will replace next?

Quantity Over Quality

What AI lacks in finesse, and emotional resonance, it makes up for in volume. It won't be long until there is so much AI generated content that we are not able to distinguish between what's made by humans and what's not.

Take the controversy around Ghibli-style AI art as an example. People uploaded their photos to be turned into Studio Ghibli-style images using AI. The backlash was swift and justified:

1. The models were trained on copyrighted animations by Hayao Miyazaki and his team.
2. No consent or compensation was given to Miyazaki or the animators at Studio Ghibli.
3. Miyazaki himself has condemned the use of AI in animation, calling it "an insult to life itself."
4. The mass generation of such images led to unnecessary environmental costs—wasting water, energy, and releasing pollutants for what many saw as a frivolous use of AI.



Greg Rutkowski's concept art.

So... What Should We Do?

First, we must recognize our power. We can choose who gets compensated—human artists or corporations profiting off their stolen work. As students, consumers, and creators in the digital age, we must choose to value human expression over machine mimicry. The future we're building is for people, not programs.

Second, real change requires collective action. This isn't just an artists' issue. Everyone—viewers, consumers, students, developers—needs to unite against systems that exploit creators. We must push for a fair and ethical legal framework that protects human work and ensures accountability.

Yes, AI has made art more accessible. That's a positive outcome. But accessibility should not come at the cost of integrity. AI excels at complex, repetitive tasks. Humans excel at creativity, empathy, and innovation. That's why AI belongs in supportive roles, not creative ones. Let the machines handle logistics—let humans create.

The Key Takeaway ?

We must create and enforce clear rules and regulations before allowing AI to participate in the creation of art.

As the next generation of leaders, thinkers, and creators, we must be intentional. We must coexist with AI—responsibly, ethically, and consciously—to build a better, fairer world for everyone.



**NAME- Aadya Deshmukh
CLASS- AN-2K**

IS AI REPLACING HUMAN CREATIVITY??

Instagram reels and TikTok videos are coming to life with AI-generated art, from mimicking vintage photography to recreating the surreal worlds of Studio Ghibli. This social media craze, as lovely as it is, conceals a gargantuan problem for the art world. The ease with which years of human toil, the heart and soul of Studio Ghibli's beloved films, can be seemingly replicated with simple text inputs is an extreme problem of ethical and artistic consequences. Hayao Miyazaki, the renowned Japanese filmmaker and animator, co-founder of Studio Ghibli, has spent his professional life with fastidious care crafting hand-drawn animated masterworks. His films, which have earned their reputation for meticulous subtleties, emotional resonance, and rich narrative, are a testament to his unyielding dedication and artistic vision. His outraged reaction, proclaiming himself "utterly disgusted" and calling the technology "an insult to life itself," highlights the intensity of this unease.

His adamant refusal to employ such technology in his productions, coupled with his acid remark, "If you really want to make creepy stuff, you can go ahead and do it," betrays a deep-seated fear of the potential for AI to produce art without genuine human feeling and experience. The source of the dilemma is the implication that AI can be used as a replacement for the human element in art production, potentially leading to a devaluation of human talent and an overproduction of art that, while visually accomplished, is deficient in the soul and richness born of lived experience. This trend threatens to undermine the very foundations of artistic expression, raising hard questions about creativity and the future of art in an age of technological progress.



NAME- Tejasvi Shrivastwa
CLASS- AN-2K

CODECRATZ

2024-25



CodeCrazt 2025: Agnel Polytechnic's First Ever Hackathon

The corridors of Agnel Polytechnic buzzed with excitement as the institution hosted its first-ever 24-hour hackathon, aptly named CodeCrazt, on the 17th and 18th of February 2025. It marked a milestone in Agnel's journey toward fostering creativity, teamwork, and technological innovation among budding developers and problem solvers.

Participants from 8 to 10 different polytechnics converged for the event, bringing together over 150 talented individuals ready to showcase their skills and ideas. After rigorous initial screenings, only 72 participants forming 18 competitive teams were shortlisted for the challenge. With diverse backgrounds and interests, these participants represented the spirit of collaboration and innovation, making CodeCrazt a remarkable event.

Four Challenges, Infinite Possibilities The hackathon featured four carefully designed problem statements, which challenged participants to create impactful solutions:

1. Finance Tracker Application: Simplifying personal financial management with cutting-edge tools.
2. Women Safety Application: Innovative approaches to ensure safety and empowerment.
3. Event Handling Application System: Streamlining event management and coordination processes.
4. Mobile-Based Attendance Management System: Revolutionizing attendance tracking with mobile technology.

The 4-5 best solutions for each problem statement were shortlisted, forming a total of 18 teams that participated in the CodeCrazt event. Each team was tasked with developing innovative solutions tailored to their chosen problem statement.



The First Day: Kickstarting Creativity

The event commenced on February 17, 2025, with an inspiring inauguration ceremony, where the principal lit the ceremonial lamp, and Rev. Father Peter D'Souza delivered enlightening words to set the tone for the event. Prof. Rashmi Dhake, the event coordinator, provided guidance and motivation to the participants before the hackathon officially started at 11 AM.

Day one featured two rounds of mentorship, where teams were guided by seasoned alumni mentors Mr. Yash Kolekar and Mr. Sundaram Krishnan. The mentoring sessions proved instrumental in refining ideas, enhancing problem-solving approaches, and preparing participants for the upcoming judging rounds. The judging panel not only evaluated the work but offered valuable advice that shaped the trajectory of many projects.

As the day unfolded, participants displayed exceptional dedication, diving deep into their workstations, brainstorming ideas, coding tirelessly, and overcoming challenges. The atmosphere was charged with energy, determination, and camaraderie.

The Sleepless Night

The night was a true test of resilience, creativity, and perseverance. Teams worked relentlessly, fueled by their

To refresh their minds and sustain their energy, the Student Council thoughtfully arranged recreational activities, including games and lighthearted group interactions, which provided participants with moments of relaxation and renewed focus. Despite the fatigue, the participants remained committed and driven, proving their dedication to excellence.

The Final Day:

Showcasing Brilliance The hackathon culminated on February 18, 2025, at 11 AM, marking the end of the intense coding marathon.

The participants presented their developed projects in a final presentation round, showcasing their creativity, technical expertise, and problem-solving capabilities. Each presentation was a testament to the hard work, innovative thinking, and teamwork displayed throughout the event.

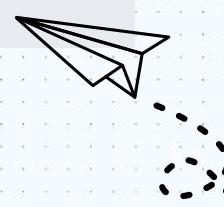
After hours of intense evaluation and discussion, the judges selected one winning team for each problem statement. Among the winners were students from Agnel Polytechnic — Ichchha Singh, Harshal Mehta, Ruchil Yetuskar, and Shravani Panchal [Artificial Intelligence and Machine Learning department] — who secured the first prize in the Women's Safety Application problem statement. Their passion for innovation, late-night snacks, and the occasional bursts of camaraderie. Conversations buzzed, keyboards clicked, as each team raced to meet the deadline.

Each winning team was awarded a cash prize of ₹10,000, a certificate, and a trophy, along with the pride and recognition that comes with being a champion of innovation.

Celebrating Innovation

CodeCratz 2025 was a resounding success, setting a high benchmark for future editions. The event not only provided a platform for participants to showcase their skills but also fostered an environment of learning, mentorship, and collaboration. The energy, dedication, and creativity exhibited by the participants made CodeCratz an unforgettable experience.

The hackathon underscored Agnel Polytechnic's commitment to nurturing the next generation of innovators and problem solvers. With memories etched in the hearts of participants and organizers alike, CodeCratz has undoubtedly laid the foundation for a tradition of excellence.



CODECRATZ



WINNER
PS: 5 - WOMENS SAFETY APPLICATION

HARSHAL MANOJ MEHTA
SHRAVANI SHEKAR PANCHAL
RUCHIL VINOD YETUSKAR
ICHCHHA RAHUL SINGH

ORGANIZING COMMITTEE



EVENT

Horizon

- TECHNOCRATZ
- RESONANCE
- ZEST
- IEDSSSA

TECHNOCRATZ

2024-25



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Technocrat

**STATE-LEVEL TECHNICAL
PAPER PRESENTATION
FIRST PLACE**

ICHCHHA SINGH
HARSHAL MEHTA



**STATE-LEVEL TECHNICAL
PAPER PRESENTATION
FIRST PLACE**

DHRUV BANGANI
SWARA HANDE

**Technical Mimic
First Place**

YESH MATEKAR
ARJUN DALVI
ARYAN KUCHEKAR
KANISK NALAWDE



**POSTER PRESENTATION
SECOND PLACE**
ADITYA KAMBLE

RESONANCE

2024-25



RESONANCE'24-25: A Celebration of Talent, Creativity, and Passion

Resonance is a vibrant cultural festival that brings together talent and enthusiasm in a two-day celebration. With captivating performances and exciting competitions, the event creates an atmosphere of energy and joy for all participants and attendees.

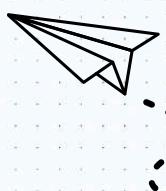
The festival begins with a warm welcome and the presence of esteemed judges and faculty members. Traditional Day sets the tone with students showcasing cultural attire, a grand banner drop, and performances like classical dance and a lively flash mob. A treasure hunt adds an adventurous challenge to the day.

The second day, Western Day, is filled with modern dance performances, singing competitions, and art exhibitions such as pot painting and rangoli.

A thought-provoking debate on topics like "Is technology making humans smarter or more dependent?" engages students in meaningful discussions.

A thought-provoking debate on topics like "Is technology making humans smarter or more dependent?" engages students in meaningful discussions.

Resonance blends tradition with modernity, leaving a lasting impression with its seamless execution, enthusiastic participation, and outstanding performances. It is an unforgettable celebration of culture, talent, and entertainment.



Fashion Show

MR.AGNELS
SOHAM DHANOKAR



MISS.AGNELS
SHARONNA ANTONY



BEST WALK
OLIVIA NEREPARAMBIL



Resonance

**FIRST PRIZE IN
TREASURE HUNT**

SANIKA SAWANT
AMEEN KHANZHADA
ADITYA PATIL
SANVI RAJBHOG



**FIRST PRIZE IN DUET
SINGING**

NIHARIKA WALUNJ
KIRTI PATIL

**SECOND PRIZE IN DUET
SINGING**

NEOS
JACKSON



**SHARED SECOND PRIZE
IN SOLO SINGING**

NIHARIKA WALUNJ
OLIVIA NEREPARAMBIL

Resonance

**FIRST PRIZE IN
RANGOLI COMPETITION**

ADITI SANKPAL
SHRAVANI KATRE



**SECOND PRIZE IN
GROUP DANCE**

SWARA HANDE	BHAVESH KAMBLE
SHRIYA NAIR	JOSEPH EBISON
ARJUN DALVI	NIHARIKA WALUNJ
TANVI LADGE	VEDANT GHULE
HARSH ROKDE	YASH NANGARE

ZEST

2024-25



ZEST'24-25: A Remarkable Display of Talent at Agnel Polytechnic's Prestigious Sports Festival

The vibrant atmosphere at Agnel Polytechnic reaches its peak as ZEST, the institution's esteemed annual sports festival, unfolds from January 2nd to January 4th, 2025. The event brings together students from all departments, fostering a spirit of competition, teamwork, and sportsmanship. Among the many outstanding performances, the competition proves to be intense and closely contested.

ZEST is not just a sports competition; it is an arena where athletic excellence thrives. This year, participants across multiple fields, including Cricket, Basketball, Table Tennis, Badminton, Athletics, Chess, and Carrom, demonstrated remarkable skill and resilience. Teams consistently push their limits, striving to deliver their best performances under the pressure of intense competition.

The atmosphere is charged with energy, and the players, fully aware of the challenges, exhibit exceptional focus and perseverance. Their commitment to excellence is evident in every event, reflecting the spirit of the festival and the values of collaboration and sportsmanship that ZEST embodies.

ZEST'24-25 serves as not only a platform to display athletic ability but also as an opportunity for personal growth, teamwork, and community spirit. The event strengthens bonds between students and fosters a sense of pride in the institution.

As the festival concludes, it reaffirms Agnel Polytechnic's dedication to nurturing talent and celebrating excellence across all disciplines.



ZEST WINNERS

FIRST PRIZE IN CRICKET

YASH NANGARE	ARJUN DALVI
VEDANT GHULE	TANAY PATIL
BHAVESH KAMBLE	RITVIK PATIL
SOUMYADEEP POLLY	TEJAS RANE
ZIYAD CHOUGLE	SWAPNIL INGE
VIVEK PANDARE	YESH MATEKAR
CHANDRAKANT	YASH RAVAL
VARANDE	



FIRST PRIZE IN KABADDI

CHANDRAKANT	SANKET PATIL
VARANDE	VEDANT MAHALE
MAHIN SHETTY	YUGANK WAGLE
TANAY PATIL	JEET PATIL
SAMEER BHOR	TANISH CHARAT

FIRST PRIZE IN BASKETBALL

ARJUN DALVI	JAY PRAKASH
YASH NANGARE	YASH RAVAL
VEDANT SAWANT	SHAWN D'SLVIA
PRATHMESH	SWAPNIL INGLE
KARANDE	YESH MATEKAR
NAYAN KAWALE	



ZEST WINNERS

**FIRST PLACE IN TABLE
TENNIS
SINGLES**

RONIT ANEGUNDI



**FIRST PLACE IN TABLE
TENNIS
MIX DOUBLES**

SWARA HANDE
RONIT ANEGUNDI

**FIRST PRIZE IN TABLE
TENNIS
BOYS DOUBLES**

TEJAS RANE
RONIT ANEGUNDI



**FIRST PLACE IN TABLE
TENNIS SINGLES**

SWARA HANDE

ZEST WINNERS

FIRST PRIZE IN BASKETBALL

NIHARIKHA WALUNJ
KRISHNAPRIYA NIKAM
SWARA HANDE
DIYA BHALERAO
SAMRUDDHI SHELKAR



FIRST PRIZE IN ESPORTS- VALORANT

VINIT NEMADE
ATHARV KUMAVAT
TAPAN GUPTA
SOHAM PATIL
SARVESH MANE



FIRST PRIZE IN CARROM SINGLES

ANSHUL VETHEKAR



SECOND PRIZE IN VOLLEYBALL

ARJUN DALVI
KRISH BOPCHE
JOSEPH EBISON
RISHAB PATIL
BHAVESH KAMBLE
TEJAS RANE
YESH MATEKAR
TANAY PATIL

ZEST WINNERS

FIRST PRIZE IN BADMINTON SINGLES

RISHIT LAKHANI



FIRST PRIZE IN BADMINTON BOYS DOUBLES

RISHIT LAKHANI
AAYUSH BHAT

SECOND PRIZE IN BADMINTON GIRLS DOUBLES

SWARA HANDE
UMAMAH DARWAJAWALA



SECOND PRIZE IN BADMINTON MIXED DOUBLES

SWARA HANDE
ANSHUL VETHEKAR

ZEST WINNERS



FIRST PRIZE IN 200 METERS SPRINT
VIBHA SHETTY

FIRST PRIZE IN MIXED RELAY

VIBHA SHETTY
SARA PATHAK
SAAD DARVESH



FIRST PRIZE GIRLS RELAY
VIBHA SHETTY
SARA PATHAK
NIHARIKHA WALUNJ
DIYA BHALERAO
SAMRUDDHI SHELKAR

ZEST Runner-ups

SECOND PRIZE IN TUG OF WAR

PURVA SAWANT NIHARIKA WALUNJ
MADHURA KHARAT OLIVIA
SHRAVANI SHIVALE NEREPARAMBIL
SWARA HANDE VAISHNAVI
ADITI SANKPAL WAGHELA
SHARANYA NAKHWA



SECOND PRIZE IN CRICKET

NIHARIKA WALUNJ
SWARA HANDE
VAISHNAVI WAGHELA
ADITI SANKPAL
TANVI LADGE
UMAMAH DARWAJAWALA

SECOND PRIZE IN MIXED RELAY

NIHARIKA WALUNJ
ANSHUL VETHEKAR
DIYA BHALERAO
JOSEPH EBISEN



SECOND PRIZE IN CHESS

LEKH GOGRI

IEDSSA

2024-25



IEDSSA 2025:

The IEDSSA (Inter Engineering Diploma Students Sports Association) is a sports organization that organizes various competitions for diploma students across Maharashtra.

It provides a platform for students to showcase their talent in different sports at zonal and state levels.

Each year, competitions are hosted by different colleges based on their available sports facilities.

Agnel Polytechnic proudly hosts the Basketball and Badminton tournament under IEDSSA.

Over the years, Agnel Polytechnic has excelled in multiple sports, winning numerous zonal and state-level titles.

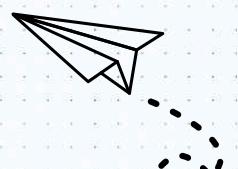
The institute has achieved remarkable success in volleyball, chess, table tennis, and more.

IEDSSA promotes teamwork, sportsmanship, and a competitive spirit among diploma students.

The events encourage students to stay active, build confidence, and enhance their physical and mental well-being.

With enthusiastic participation from colleges across Maharashtra, IEDSSA continues to grow every year.

It plays a crucial role in fostering a vibrant sports culture among diploma students.



IEDSSA

TRIPLE JUMP ZONALS FIRST PLACE

SHAWN D'SLVIA



TRIPLE JUMP ZONALS FIRST PLACE

SAMRUDDHI SHELKAR

100 METER ZONALS SECOND PLACE

NIHARIKHA WALUNJ



DISCUS THROW FIRST PRIZE ZONALS

ALIYA RANAVAT

IEDSSA

**200 METER ZONALS
SECOND PLACE**

VIBHA SHETTY



**400 METERS RELAY
ZONALS
FIRST PLACE**

**SARA PATHAK
VIBHA SHETTY
NIHARIKHA WALUNJ
SAMRUDDHI SHELKAR**

**CHESS ZONALS
SECOND PLACE**

**LEKH GOGRI
YESH MATEKAR**



IEDSSA

TABLE TENNIS STATE LEVEL FIRST PLACE

TEJAS RANE
RONIT ANEGUNDI
PARTH GAIKAR
UTHMAN FARID



**VOLLEYBALL
FIRST PRIZE ZONALS**
ALIYA RANVAT
ISHITA YEWALE
SWARA HANDE
OLIVIA NEREPARAMBIL
PALLAVI PATIL
ASKHTA BIRADAR
VIDHI TAWDE
KRISHNAPRIYA NIKAM



TECH SHOWDOWNS

- Expert Lectures

Agnel Polytechnic, Vashi
Department: AN/TE
Expert Lecture on Gen AI

Class: AN4K/TE4K

Date: 24-January 2025



Agnel Polytechnic, Vashi
Department: AN
Industrial Visit at LiveTechIndia, Andheri

Class: AN5I

Date: 09-Oct-2024



Agnel Polytechnic, Vashi

Department: AN

Industrial Visit at NVIDIA CIDCO Exhibition & Convention Centre

Class: AN5I

Date: 19-Oct-2024



Agnel Polytechnic, Vashi

Department: AN

Industrial Visit at Milestone Technologies Thane

Class: AN3K

Date: 06-Sept-2024



AGNEL POLYTECHNIC, VASHI

Java Workshop

Resource Company: Industry Institute of Futuristic Technology

Time: 11:00AM-4:30 PM

Date: 20/02/2025 to 22/02/2025



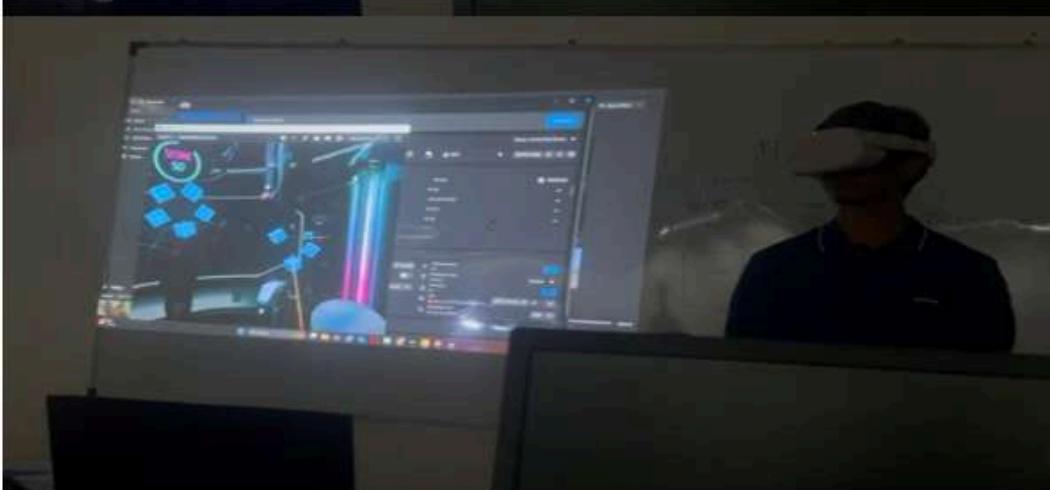
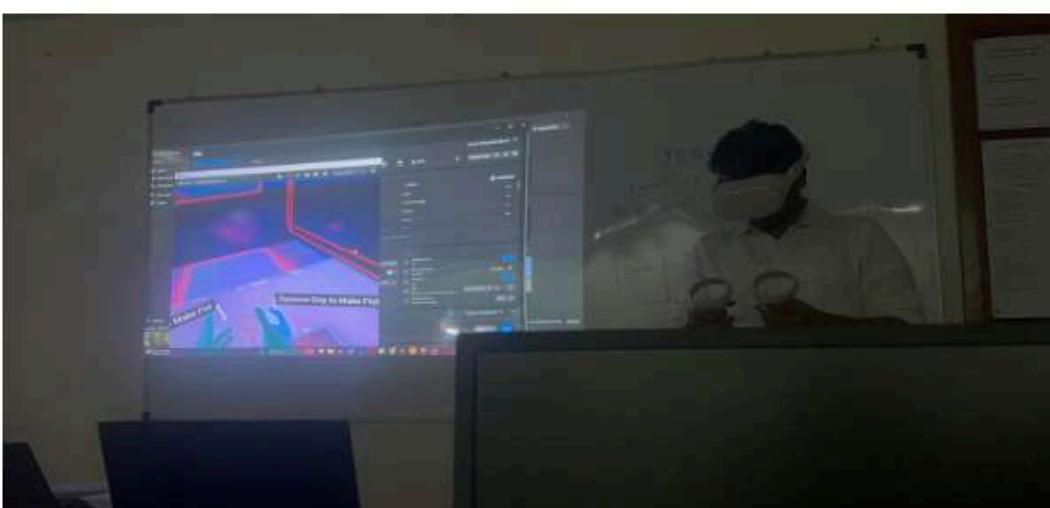
AGNEL POLYTECHNIC, VASHI

Java Workshop

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AGNEL POLYTECHNIC, VASHI
Diploma in Artificial Intelligence and Machine Learning Department
Industrial Visit at "MTNL, POWAI"

Date: 18th February 2025



Star

HALL

OF

FAME

Outstanding Performers

STATE-LEVEL
TECHNICAL QUIZ
FIRST PLACE

RUCHIL YETUSKAR
HARSHAL MEHTA



NATIONAL-LEVEL TECHNICAL
PAPER PRESENTATION AT
BVIT, PUNE FIRST PLACE

DEVIKA SUGATHAN
VIBHA SHETTY

STATE-LEVEL TECHNICAL
QUIZ AT KALSEKAR, PANVEL
First Place

HARSHAL MEHTA
RUCHIL YETUSKAR



Outstanding performers

**MSBTE STATE LEVEL
PROJECT COMPETITION AT
SSJP, ASANGAON
CONSOLATION PRIZE**

**ICHCHHA SINGH
HARSHAL MEHTA
RUCHIL YETUSKAR
SHRAVANI PANCHAL**



**STATE LEVEL
THE CLUE CHRONICAL AT
KJSP, VIDYAVIHAR
FIRST PLACE**

**DEVIKA SUGATHAN
SOHAM DHANOKAR**

**MSBTE STATE-LEVEL
TECHNICAL PAPER
PRESENTATION
FIRST PLACE AT KALSEKAR
POLYTECHNIC PANVEL**

**ICHCHHA SINGH
HARSHAL MEHTA**



AN1K

OJASWINI OAK
94.59%



REHAN KHAN
91.6%

PALAK KAPOOR
89.29%



AN3K



OMKAR MHATRE
90.35%



**DHRUV
BANGANI**
89.18%



**ANSHUL
VETHEKAR**
89.18%



**UMAMAH
DARWAJAWALA**
88.71%



AN5I

ICHCHHA SINGH
91.33%



HARSHA KOLI
90.22 %

RUCHIL YETUSKAR
89.00 %



GROUP PHOTOGRAPH

ARTIFICIAL INTELLIGENCE AND
MACHINE LEARNING



BATCH 23-24

Meet The Team

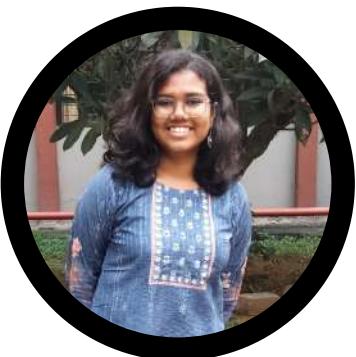
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Payal Patil

Faculty Coordinator

Behind The Creative Process Of Building This Magazine



**Pranavkumar
Bhadane**