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NEWSLETTER

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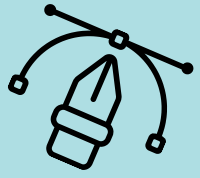
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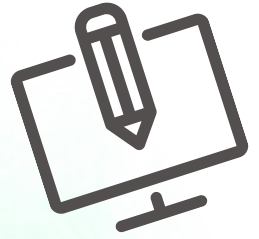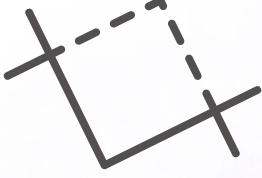**B.E. 5th sem**

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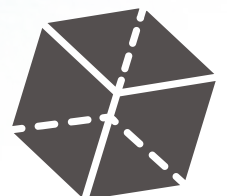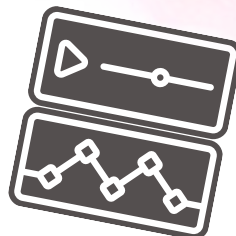**Anand Patel**
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Technical Article

## EXPLORING THE LATEST TECHNOLOGIES IN THE FIELD OF COMPUTER SCIENCE

The field of computer science is constantly evolving, driven by rapid advancements in technology. With each passing year, new technologies emerge, pushing the boundaries of what is possible and revolutionizing various industries. In this article, we will explore some of the latest technologies in the field of computer science, highlighting their potential impact and applications.

Artificial Intelligence (AI):

Artificial Intelligence, or AI, is a field of computer science that focuses on creating intelligent machines capable of simulating human intelligence. AI technologies such as machine learning, deep learning, and natural language processing are revolutionizing industries like healthcare, finance, transportation, and more. AI-powered systems can analyze vast amounts of data, make predictions, automate tasks, and provide personalized experiences.

Internet of Things (IoT):

The Internet of Things refers to the network of interconnected physical devices embedded with sensors, software, and connectivity. These devices collect and exchange data, enabling them to interact with the physical world. IoT technology has found applications in smart homes, healthcare monitoring, industrial automation, and smart cities. By connecting devices and sharing data, IoT has the potential to enhance efficiency, improve decision-making, and transform various aspects of our daily lives.
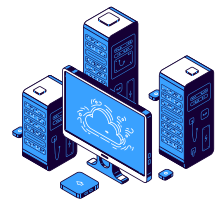
Blockchain:

Blockchain technology is a distributed ledger that allows secure and transparent recording of transactions. It offers decentralization, immutability, and cryptographic security, making it suitable for various applications such as cryptocurrency, supply chain management, healthcare records, and voting systems. Blockchain eliminates the need for intermediaries, reduces fraud, and ensures transparency, making it a disruptive force across industries.

Quantum Computing:

Quantum computing utilizes principles of quantum mechanics to perform complex calculations at an unprecedented speed. Quantum computers have the potential to solve problems that are currently intractable for classical computers, such as breaking encryption algorithms, optimizing complex systems, and simulating quantum phenomena. While still in the early stages, quantum computing has the potential to revolutionize fields like cryptography, drug discovery, and optimization.
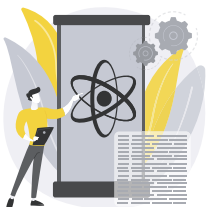
Prepared by : Saurabh Singh
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Application Development

I am thrilled to present the Driving Licenses Application, a groundbreaking project that emerged from my recent internship at Surat riseup-infotech as an Android developer. This innovative app aims to revolutionize the license application process, making it easier, more convenient, and promoting road safety. By simplifying the application procedure and providing additional features such as music playback and a speedometer, this application is designed to empower drivers and enhance their overall driving experience. Join me as we delve into the remarkable features of this app, developed with the goal of transforming the way we apply for licenses and ensuring safer roads for everyone. It is developed in java and xml language
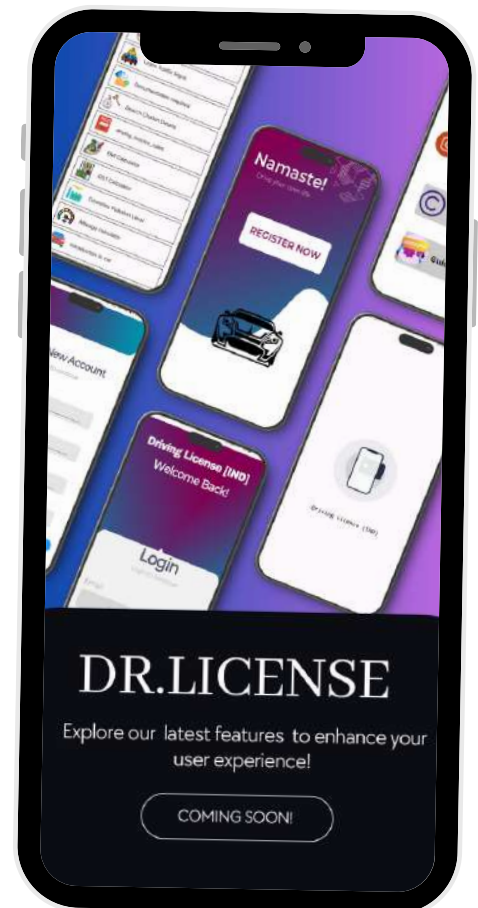
Feature's of my Android Application Package:

1:

The Driving Licenses Application makes applying for a license simple and convenient. Instead of waiting in long lines and dealing with paperwork, drivers can complete the entire process using their smartphones. The app's user-friendly interface guides users through the steps, making it easy for anyone to apply for a license without hassle.

#2:

Ensuring the validity of driving licenses is crucial for road safety. With the Driving Licenses App, drivers can easily verify the authenticity of their licenses. By entering their license number in the app, they can quickly check if their license is valid and legally recognized.

3:

To make driving more enjoyable, the app includes a music playback feature. Users can connect their smartphones to the app and listen to their favorite music or podcasts while driving.

4:

The app also features a built-in speedometer to promote safer driving habits. Using GPS technology, it provides drivers with real-time information about their speed. This helps them stay within legal speed limits and avoid accidents caused by excessive speeding. By encouraging responsible driving, the app contributes to a safer and more mindful driving experience.
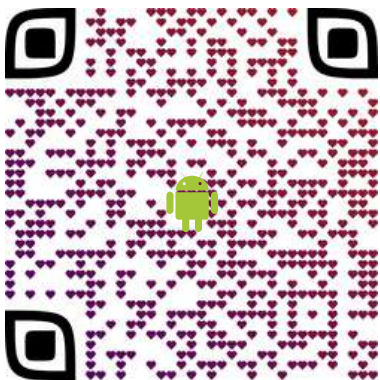
Download the apk

android

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Technical Article

AI, or Artificial Intelligence, is about teaching computers to think and learn like humans. It involves creating smart machines that can understand information, make decisions, and solve problems. AI uses techniques like machine learning, where computers learn from data, and deep learning, which mimics the human brain's neural networks. AI can understand human language, recognize images, play games, drive cars, and help with tasks like virtual assistants. While AI has many exciting possibilities, it also raises questions about ethics, privacy, and the impact on jobs. AI continues to advance and has the potential to revolutionize industries and improve our lives.
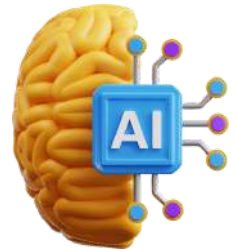
Advantages of AI:

Efficiency: AI can automate repetitive tasks, leading to increased productivity and efficiency. It can process vast amounts of data quickly and accurately, outperforming humans in tasks that require speed and precision.

Decision-making: AI systems can analyze data, identify patterns, and make predictions or recommendations based on that analysis. This can assist in making informed decisions and improving outcomes in various domains, such as healthcare, finance, and business.

Error reduction: Unlike humans, AI algorithms are not prone to human errors, such as fatigue, distraction, or bias. AI can consistently perform tasks with high accuracy, reducing the likelihood of mistakes.

Handling complex data: AI can handle complex and large-scale datasets, extracting valuable insights and patterns that may be difficult for humans to detect. This enables organizations to uncover hidden trends and make data-driven decisions.

Disadvantages of AI:

Job displacement: AI automation has the potential to replace certain job roles, particularly those that involve repetitive or routine tasks. This can lead to job loss and unemployment, requiring individuals to adapt their skills for new roles in the evolving job market.

Lack of human judgment: AI lacks the ability to exercise human judgment, intuition, and creativity. It operates based on predefined algorithms and data inputs, which may limit its capacity to handle unique or unforeseen situations.

Privacy and security concerns: As AI systems gather and analyze vast amounts of data, there are concerns about privacy and security. If data is mishandled or falls into the wrong hands, it can result in breaches of personal information or unauthorized access.

Dependency and reliability: Relying heavily on AI systems can make society vulnerable to failures or malfunctions. If an AI system experiences a technical glitch or makes an incorrect decision, it can have significant consequences in critical areas such as healthcare or autonomous vehicles.
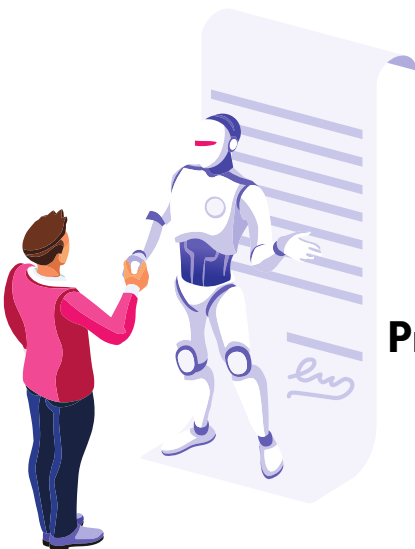
Prepared by : Siddhesh Nimkar
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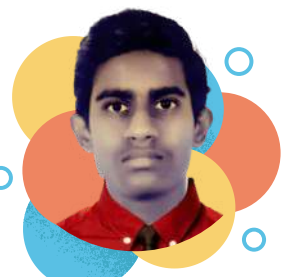
India is the third largest energy consuming country in the world. This demonstrate an exigency to produce affordable, reliable and clean energy to meet the needs of the burgeoning population in the country. It is extremely vital for the future development of the economy and will require extensive groundwork on formulating strong policies, technologies leaps and higher capital influx in the sector.
The ever-expanding industrialization and urbanization will primarily drive the energy demand that is forecasted to reach 405 GW of renewable energy capacity by 2030.for this problems India is doing certain development they are as given below;

1. Acceleration of solar power adoption
2. Indigenous development of green hydrogen technologies

The government has launched a 'mission of Advanced and High Impact Research (MAHIR)' with a view to leverage emerging technologies in the power sector and make the country a manufacturing hub. MAHIR aims to facilities indigenous research, development and demonstrate of the latest and emerging technologies in the power sector, a power ministry statement said.
Basically these program will lead the power sector towards to use the renewable energy by the emerging technologies. The ministry of the power and the ministry of new and renewable energy have jointly launched a national mission to quickly identify the emerging technologies in the power sector and develop them indigenously at the larger scale.

Nowadays AI is also being come in the role and become powerful as well because this will have the knowledge that we doesn't have so it is the great to live with the AI but it will sometime hurts the people and well
as the machine also. Because it want to manage everything itself it will make machine to work as it want to do. So maybe it may be sometime harmful government said.

At many places the solar plants are planting because new there is time to use renewable energy to produce the electrical energy as I said earlier. So government is planting solar panel everywhere like in gardens or any of the empty place to produce electricity. And government is also finding the source to make larger energy in less space and in large amount because the population of India is increasing
frequently.
There are certain more development that are not so big but it is significant and not be sell more in the market like we have the AC Neckband but not be on sell in every market so this are the very small development done in the electrical sector which is not known by the people and there is the development of fans also nowadays there comes
the Ac fans that's take less energy and do more work than the dc fans and the maintenance is also good but somehow difficult because of the new technology

Prepared by : Dev Joshi
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WORLD
Environment
DAY

On the occasion of "World Environment Day", a tree plantation program was organized at UPL University of Sustainable Technology in association with forest department, Valia. The program was coordinated by NCC cadets of UPL University and total 30 plants have been planted in university campus. We are thankful to forest department of Valia for providing plants.

Photography Contest


Priti Pal
BE-EST SEM 6

Nilesh Khairnar
BE-EST SEM 6

Tanmay Fatangare
BSc- SEM 4

Deep Modi
BE-CE SEM 6

In order to save our mother planet and live happily, it is up to each of us to do our part to keep our surroundings clean and green. Nature Club of UPL University, Department of Environmental Science & Technology and Institution of Engineers (India) (IEI) students' chapter (393135/SRIC/EN) (in association with IQAC) organized an "Online Photography Contest" on "World Environment Day" on 5th June, 2023. Students from various streams and colleges enthusiastically participated in this competition.
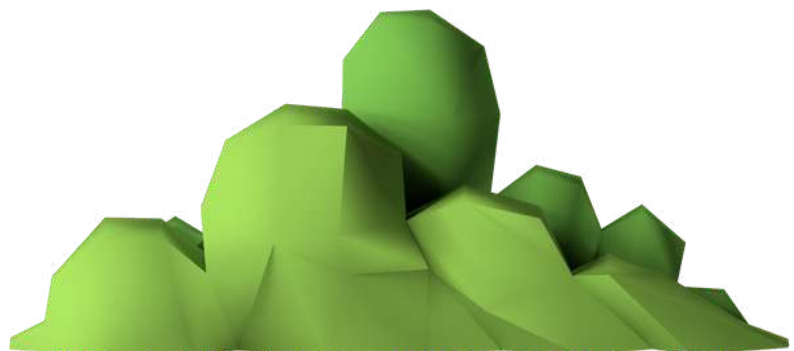
Yoga Day

UPL University of Sustainable Technology celebrated 9th International Yoga Day to realize the concept of 'One Earth One Health'. On this occasion Surya Namaskar (as a part of the activity) was performed on 17th June, 2023 under the guidance of a yoga expert. Around 50 students, faculty and staff members participated in the activity.

UPL University of Sustainable Technology celebrated the 9th International Day of Yoga on the university campus. The event proceeded according to yoga protocol under the direction and supervision of the invited yoga instructors. The session was attended by faculty staff members and students with great enthusiasm.

NSS - Importance of yoga

NSS, UPL University of Sustainable Technology organized a session on yoga awareness and its importance on 19.06.23. First year students from all branches were present during the session. This allowed students to understand the importance of yoga. Furthermore, it also guided them to develop a great sense of self-discipline and self-awareness. Over 200 students actively attended the event and registered for the 9th International Yoga Day .
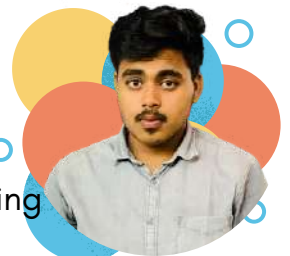
HOBBY CORNER

Prepared by :
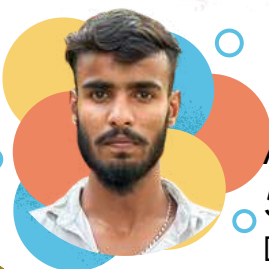
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Dip. Computer Engineering

HOBBY CORNER

Prepared by : Nilesh Yadav
5th sem
Dip. Mechanical Engineering

POEM- FREE

Spinning in circles

Arms held high

Eyes to the sky

Wind on my face

I feel you grace

Could pass

Feet in the grass

Flowers sway,

To the best of the amazing day

Month of May,always stay

Birds spread their wings and take flight

How I wish I might stay in this light

Feild mouse scurries,

I wonder,why the hurry?

Deer to the hudge, quietly edge out of sight.

Insects join with a song,

I hum along

Spinning in circles

Arms held high

Feel, I breathe

Thankful, I am alive.

Prepared by : Janvi Gangvekar
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