

ARTICLES

Augmented Reality

What is Augmented Reality?



A combination of a real scene viewed by a user and a virtual scene generated by a computer that augments the scene with additional information.



An AR system adds virtual computer-generated objects, audio and other sensory enhancements to a real-world environment in real time.

Role of Machine Learning in Natural Language Processing

Introduction:

Machine Learning and Natural Language Processing are important subfields of Artificial Intelligence that have gained prominence in recent times. Machine Learning and Natural Language Processing play a very important part in making an artificial agent into an artificial 'intelligent' agent. An Artificially intelligent system can accept better information from the environment and can act on the environment in a significantly better manner because of the advancement in Natural Language Processing.

Simply, an Artificially intelligent system can process the received information and perform better predictions for its actions because of the adoption of Machine Learning techniques.

Machine Learning gives the system the ability to learn from past experiences and examples. General algorithms perform a fixed set of operations according to what it has been programmed to do so and they do not possess the ability to solve unknown problems. And, in the real world, most of the problems faced contain many unknown variables which makes the traditional algorithms very less effective. This is where machine learning comes to the fore. With the help of past examples, a machine learning algorithm is far better equipped to handle such unknown problems.

Some of the classic examples given include spam mail detection, to detect and classify if a mail is a legitimate one or spam includes many unknowns. There are many ways in which spam filters can be coded. For a traditional algorithm to work, every feature and variable has to be hardcoded, which is extremely difficult. If at all possible, whereas a machine learning algorithm will be able to work in such an environment because of its ability to learn and form a general rule.

Deep Learning is a specialization of machine learning algorithms, the Artificial Neural Network. In recent times it has been observed that deep learning techniques have been widely adopted and have produced good results as well. The flexibility provided by the deep learning techniques in deciding upon the architecture is one of the important reasons for the success of these techniques. Deep learning techniques have been at the forefront of machine learning techniques used for research in natural language processing.

Natural Language Processing, on the other hand, is the ability of a system to understand and process human languages. A computer system only understands the language of 0's and 1's, it does not understand human languages like English or Hindi. Natural Language Processing gave the computing system the ability to understand English or the Hindi language.

The Future Of Cryptocurrency in 2021 and Beyond

A cryptocurrency is a digital currency that is created and managed through the use of advanced encryption techniques known as cryptography. Cryptocurrency made the leap from being an academic concept to (virtual) reality with the creation of Bitcoin in 2009. While Bitcoin attracted a growing following in subsequent years, it captured significant investor and media attention in April 2013 when it peaked at a record \$266 per bitcoin after surging 10-fold in the preceding two months. Bitcoin sported a market value of over \$2 billion at its peak, but a 50% plunge shortly thereafter sparked a raging debate about the future of cryptocurrencies in general and Bitcoin in particular. So, will these alternative currencies eventually supplant conventional currencies and become as ubiquitous as dollars and euros someday? Or are cryptocurrencies a passing fad that will flame out before long? The answer lies with Bitcoin.

What is Cryptocurrency?



Examples of Cryptocurrency



GOAL-LINE TECHNOLOGY

Goal-line technology is a technical means of instantly determining whether the whole of the ball has crossed the goal line or not. Some of you might be wondering, what is this? Why do we need this, I believe that people who do not watch football or have never watched a football game are the ones who will be asking these questions but fair not that is why I write this article for those of you who do not understand the need and importance of it.



Now from where should I start? 1966? a world cup final between England and West Germany? Nah! OK, how about 2010 to be specific 27-jun-2010 the day English football fans will never forget. It was a knockout round match between the two biggies England and Germany. At that time England were favorites to go through as they had leaders everywhere on pitch. In defence it was John Terry the Chelsea captain who had just lifted the most prestigious piece of silverware in English football history widely known as "The Premier league". In middle of the park it was Super Frank the midfield maestro from again the newly crowned English champions yep you guessed it right Chelsea. Up front it was Wayne Rooney the guy who scored a hat-trick on his debut in the toughest league in the world and was in headlines again for his goal-scoring exploits.

You might be thinking that if that was the case then they surely have gone through to the next round but only if it was fair and Manuel Neuer the

BYTE WALL MAGAZINE

OUR TEAM

VIDYAVARDHINI'S COLLEGE OF ENGINEERING AND TECHNOLOGY, VASAI

DEPARTMENT OF COMPUTER ENGINEERING

Byte Wall Magazine

The following is the team for wall magazine of COMP, VCET

Wall Magazine Head : Mr. Jash Ghelani
 Technical Head : Ms. Rachali Mhatre
 Creative/Logistics Head : Ms. Nidhi Mehta
 Ms. Lavina Rathod
 Faculty Incharge : Mrs. Maya Varghese

Steps to add Redux into your React project

Redux is a different entity from react, you can use redux anywhere in the project whether it is vue, angular, or vanilla js, etc. Redux is used to manage all the states and provide global data access to all the components in the project, you no need to follow that ancestor props passing to get access to parents or super-parents data.

Installation

before using redux in your app you need to install some packages.

```
# If you use npm
npm install react-redux

# Or if you use yarn
yarn add react-redux
```

Create a global store

```
import React from 'react';
import ReactDOM from 'react-dom';
import App from './App';
import { Provider } from 'react-redux';
import { configureStore } from './store';

const store = configureStore();

ReactDOM.render(
  <Provider store={store}>
    <App />
  </Provider>,
  document.getElementById('root')
```

eagerly waiting for one of our last memorable days, that's the farewell which was on its way but what my past experiences taught me was one fundamental thing-Life is unpredictable. And so came the news of initially schools, colleges & eventually the entire nation would go through a Lockdown due to the outbreak of a pandemic globally. This Lockdown showed us a trailer of what we would be going through post completion of graduation and you guys also had a pinch of it in your plate a bit earlier than scheduled. There was a riot of emotions going inside. To be sad? Or to be happy? Or both? We didn't know. We just went with the flow & started preparing for the future. On one hand there was a graduation ceremony awaiting us post pandemic while on the other your friends for one last time. I can't believe it. It's all actually happening. Finally, it is both an end to the fun filled days of our student years and also a beginning of warm memories of the past and big dreams for the future. This golden period better equips you for all the challenges you'll face in life and creates a strong foundation of knowledge. Signing off with love and light.

-Kritika Sujay Rao
BE Batch 2020

competition in large amount but it's rightly said "A dream does not become reality through magic; it takes sweat, determination, and hard work." So I got good training from college and I put in all my efforts to grab the opportunity. To add on VCET gives a great opportunity to all the students with placement drive, where we have all the top companies visiting us every year. Lastly, I would like to thank entire team of Computer department who were with me to always guide me on right path and to mould my future in better way. And then this 4 years of journey comes to an end with all the amazing memories. I will miss my college and friends a lot! Thank you once again.

-Pooja Yelkar
BE Batch 2020

be apt has taught me quite a lot. I would like to thank all of those who have supported me throughout this journey and entrusted me with this responsibility. The people who contributed to the success of all these events and taking council where it is today. I will likely name some members Mihika, Shubham, Deeksha, Hari, Takshi and Malavika. A very special thanks to Dr. Sunayana Jadhav for putting up with all the small and big goof ups and Prof. Sunil Katkar for his guidance. And sorry if I forgot to take anyone's name. You all mean alot to me.

The support extended by the college governing body by providing this platform and many such platforms has helped a lot. And I would like to thank our Principal sir Dr. Harish Vankudre for trusting us with this opportunity. There is a universal truth we all have to face ,whether we want it or not, everything eventually ends. And today where this journey ends I am equally anxious and scared as I was on the first day of college. Not scared of stepping in a new world but that I will have to part ways.

-Abul Naik
BE Batch 2020

Flashing back to the bygone days when with buzzing emotions I stepped into the VCET premises. Words fall short to pen down all my enriching and unforgettable four years of my life. The atmosphere of the campus was so fresh and welcoming that it took away all my nervousness. With each passing day the journey got more interesting. From making new friends to meeting new professors it was one whole of an experience. Every professor helped me take a step closer to my dreams. Various technical fests, Avahan and the power-packed Zeal added more grace to this beautiful journey. Paving my way to join the Students' Council and finally becoming the Joint Cultural Secretary still seems like an ineffable journey.

In all these four years the college taught me so many skills for a lifetime thus giving me the courage to face any challenges come my way. It taught me to live in the moment even if it's inconspicuous. I'd like to extend my heartfelt gratitude to each and every person who believed in me, who supported me and moreover pushed me to take the leap to become the person I am today. The journey is and will always be closest to my heart!

- Malavika Nair.
BE Batch 2020

OUR EVENTS

ENGINEERING & TECHNOLOGY, VASAI

Department Of Computer Engineering

Congratulations!

Placement on Campus (2020-2021)

COMPANY NAME	NO. OF STUDENTS PLACED
Infosys	15
TCS	23
L&T	03
Raw Engineering	01
Zeus Learning	03

FEW SPOTLIGHTS

- Tejas Kachare placed in Infosys as Power Programmer through HackWith Infy Competition got 8 LPA.
- Keval Shah got Digital Programmer offer in TCS with 7 LPA.
- Mihir Porival & Aditya Yadav placed in LTI got 5 LPA
- Amit Yadav, Divyanshu Gupta & Meet Thakkar placed in INFOSYS as system Engineer specialist HackWith infy competition got 5 LPA

Session on BLOCKCHAIN TECHNOLOGY

SPEAKER: Ms. Leena Nadkar

Blockchain Revolution

TIMELINE

STRUCTURE OF A BLOCK

BLOCKCHAIN REVOLUTION

Webinar on DATA SCIENCE USING MATLAB

SPEAKER: Mr. Suraj Gawande

Deep Learning Inference in C++ Code