

Report On Introduction to Emerging Technologies GE102

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Details Of The Event

Date : 20 NOVEMBER 2021

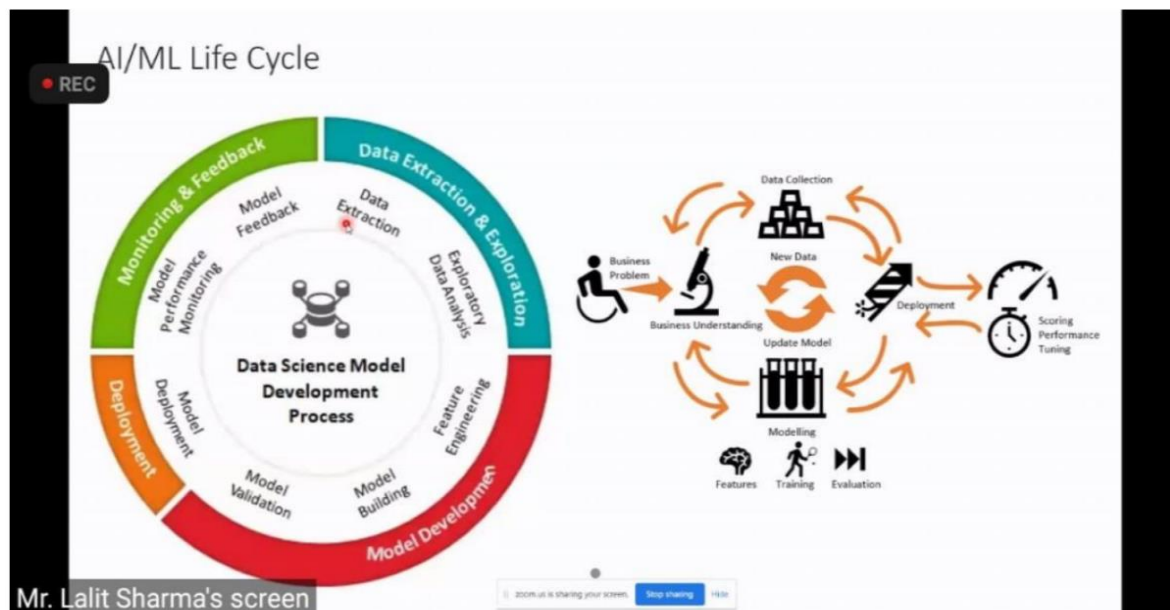
Venue : Zoom (Online Platform) Industry Expert

Industry Expert Details : Mr. Lalit Kumar(Head
Emerging Technology and Innovation at YAMAHA
MOTORS)

INDUSTRY EXPERT TALK : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Introduction

An industry expert talk by renowned personality Mr. Lalit Kumar(Head Emerging Technology and Innovation at YAMAHA MOTORS) under the course “Introduction to emerging technologies” during the foundation programme “Explore 2021” has been organized at chitkara university. He started the session by discussing about AI and ML technology which is the most important technology used in our day to day life. This technology has such a rapid advancement throughout the years which is very appreciable, and he described it using the Data Science model development Process And how is this technology is helping in monitoring and feedback, data extraction and exploration, model development, deployment and many more. In 1990, basics of AI and ML started to begin through Boston, Dynamics, Nvidia, Netflix, eBay, Amazon.com. Nowadays, no company



And how is this technology is helping in monitoring and feedback, data extraction and exploration, model development, deployment and many more. In 1990, basics of AI and ML started to begin through Boston, Dynamics, Nvidia, Netflix, eBay, Amazon.com. Nowadays, no company can Sustained without AI and ML, they all are focusing on emerging technologies which involve AI and ML, they are trying to automate their business as much as they can. So is our life, our daily life routine involves many applications of AI and ML like Learning online, Social media on internet, online ordering, booking a taxi through internet etc. These apps keep tracking user's behavior and recommend things accordingly.

Artificial Intelligence (AI):

Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving. The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have the best chance of achieving a specific goal. A subset of artificial intelligence is machine learning, which refers to the concept that computer programs can automatically learn from and adapt to new data without being assisted by humans. It is the ability of computers and machines to sense, reason, engage and learn things like humans. It includes Robotics and Machines, Natural language processing like converting text into strings, converting voice into text, Voice recognition which identifies the voice, Planning and Optimization, Knowledge Capture. AI applications include advanced web search engines (e.g., Google), recommendation systems (used by YouTube, Amazon, Netflix), selfdriving cars, automated decision

making and competing at highest level in strategic games like chess and ludo etc.

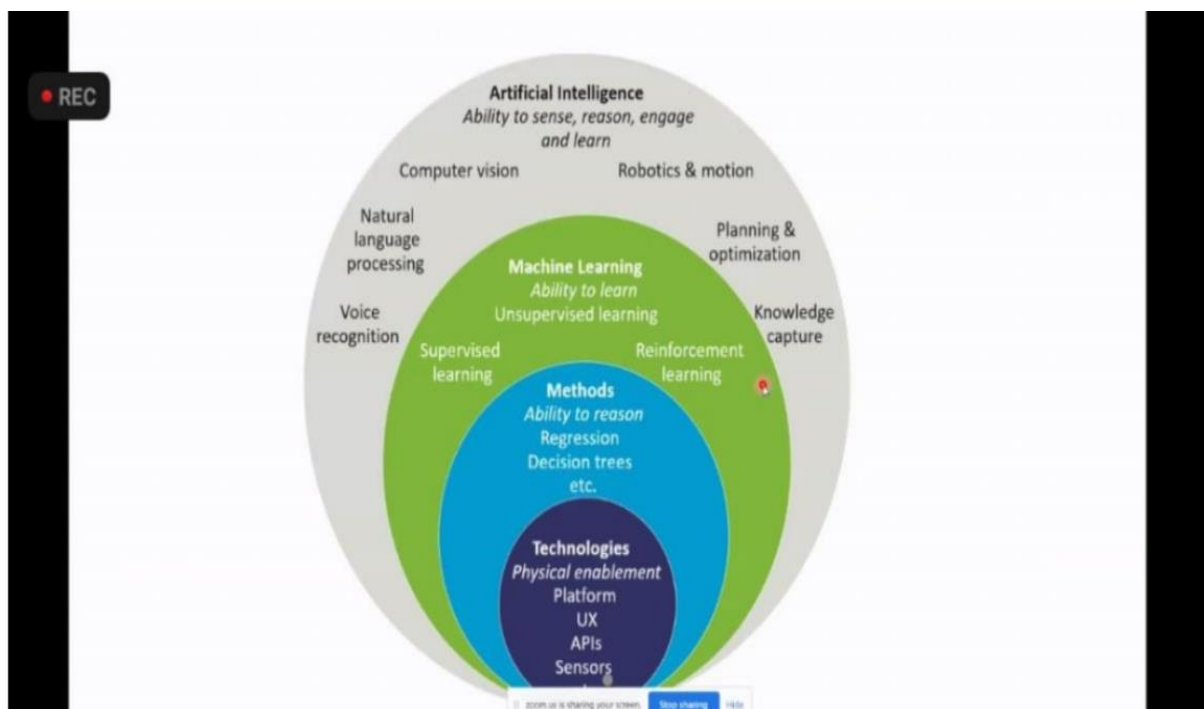
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Machine Learning (ML):

Machine learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy. Machine learning is an important component of the growing field of data science. Through the use of statistical methods, algorithms are trained to make classifications or predictions, uncovering key insights within data mining projects. These insights subsequently drive decision making within applications and businesses, ideally impacting key growth metrics. As big data continues to expand and grow, the market demand for data scientists will increase, requiring them to assist in the identification of the

most relevant business questions and subsequently the data to answer them. Machine learning is useful in parsing the immense amount of information that is consistently and readily available in the world to assist in decision making.

Machine learning can be applied in a variety of areas, such as in investing, advertising, lending, organizing news, fraud detection, and more. It includes supervised learning, unsupervised learning, reinforcement learning.



EXPERT TALK OUTCOMES (CONCLUSION):

- AI and ML is the future, in coming times all the work can be done with it.
- CES, Face recognition are the amazing features of AI and ML
- AI solves tasks that require human intelligence while ML is a subset of artificial intelligence that solves specific tasks by learning from data and making predictions.
- All machine learning is AI but not all AI is machine learning
- AI & ML is used in every sector to some extent.
- It supports the development of new emergent technologies.
- Automation uses AI & ML (using machine learning algorithms).

SNAPSHOTS OF WEBINAR:

