



VIT[®]
B H O P A L
www.vitbhopal.ac.in



*Industrial Applications of Artificial Intelligence in Sensing,
Automation, Process Control, Production and Quality
Assurance towards Industry 4.0*

7th-9th April



ABOUT VIT BHOPAL

At VIT Bhopal University, Bhopal we provide students with Future-Ready Programs with dedicated Doctoral Faculty members who are at beck and call to help our students. For more details about our programs and mission visit our official website <https://www.vitbhopal.ac.in>.





ABOUT AI DIVISION

Here at VIT Bhopal, the AI division students can complete certificate courses in Artificial Intelligence, Machine Learning, Data Science, Computer Vision and so on. The AI division has also organized events to boost students' skill development by arranging AI with a Python workshop, AI Conclave, and AI Club Activities as well.

ABOUT AI CLUB

AI Club is one of the few clubs of VIT Bhopal which successfully hosted numerous national as well as international events such as AI Conclave. As we know, AI goes hand in hand with automation, thus one of our Aim is to create systems adaptive through the use of Artificial Intelligence. We organize events such as debates, webinars, competitions, to showcase the skills of our members as well as learn alongside them and improve our analyzing skills and maybe even develop some new skills along the way, the possibilities are endless. The main goal of AI Club is to provide students with Industry level experience, which would help them in their future. Every member is provided equal opportunities as well as a platform to sharpen and showcase their talents.

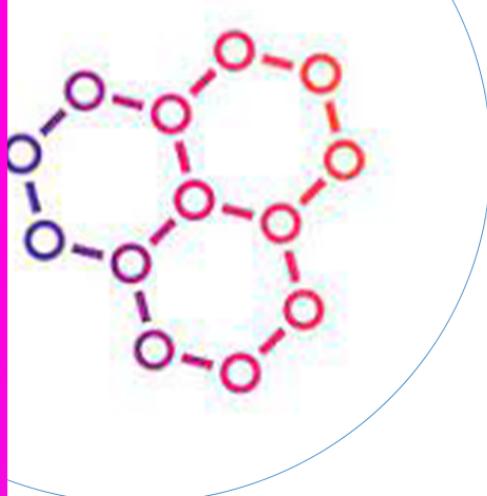




ABOUT THE EVENT

The AI Division of VIT Bhopal is organizing an International Three Day Workshop on "Industrial Applications of Artificial Intelligence in Sensing, Automation, Process Control, Production and Quality Assurance towards Industry 4.0 (IAAI)" during April 7-9, 2022. The workshop will gather many International and National delegates and research scholars along with the expert speakers from Industry, Academia and R&D sectors to ponder upon various industries.

TOPICS



MATERIAL SCIENCE

In many ways ,current AI applications in material science focus on solving engineering and design problems.



ADDITIVE MANUFACTURING

Additive manufacturing involves numerous and complex variables to be monitored and controlled in the process to achieve an acceptable level of accuracy in printing that can be attained by AI.



CORROSION MANAGEMENT

AI enable more efficient monitoring and inspection of the vessel asset remotely.



PRODUCT DESIGN

AI is a promising and exploratory area that can significantly improve user experience for designing engineers

OIL AND GAS

AI helps oil and gas companies assess the value of specific reservoirs, customize drilling and completion plans according to the geology of the area, and assess risks of each individual well.



CHEMICAL INDUSTRY

AI accelerates the efforts to combat climate change by guessing the damage done by harmful pollutants.



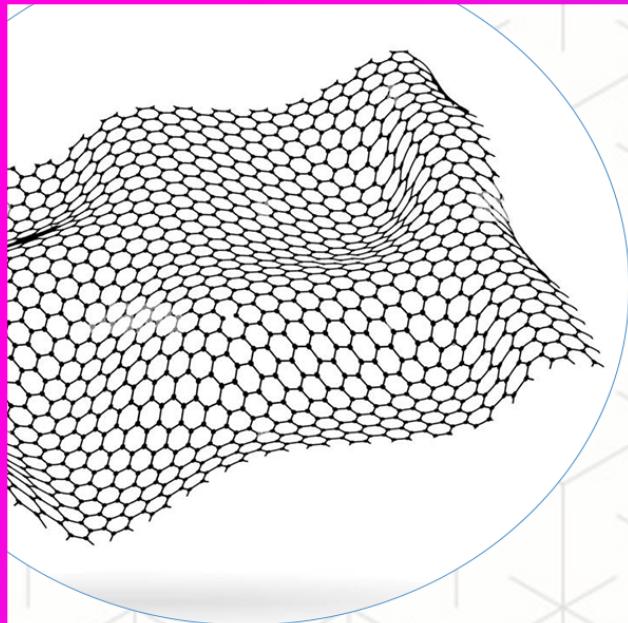
STEEL INDUSTRY

The Learning Steel Plant enables machinery to optimize operations in an ever-changing environment autonomously under the use of Artificial Intelligence and Machine Learning.



AEROSPACE

Artificial intelligence (AI) in the aerospace industry can help companies streamline manufacturing while also addressing safety concerns.



SMART AND NANO MATERIALS

AI has heavily relied on biological inspiration to develop some of its most effective paradigms such as neural networks or evolutionary algorithms.



WATER AND SOIL SERVICES

AI can be leveraged to detect the amount and composition of toxic contaminants since AI works on optics, which can increase the efficiency of waste management systems.



HEALTHCARE

AI in healthcare has the potential to assist healthcare providers in many aspects of patient care and administrative processes.



REMOTE SENSING

AI is rapidly developed and is applied to a variety of remote sensing areas.

QUALITY ASSURANCE

Ai is capable of maximizing defect detection and risk coverage while minimizing costs, execution time.



ROBOTICS

In recent years, AI has become an increasingly common presence in robotic solutions, introducing flexibility and learning capabilities in previously rigid applications.

EDUCATION

AI-powered solutions have been in the EdTech space doing wonders.



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