



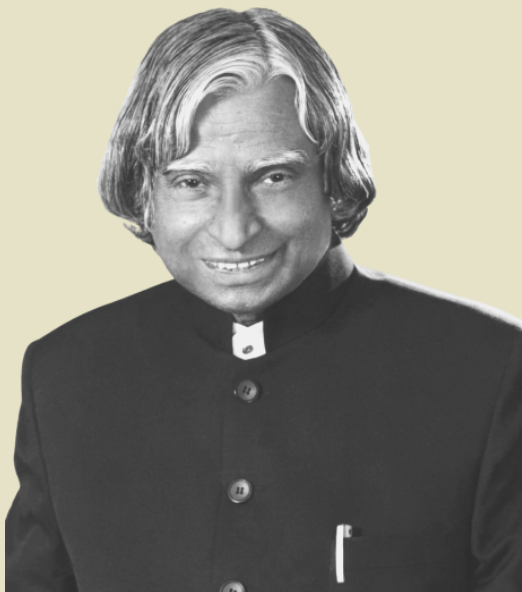
November 2021 | Volume 1 | Edition 3

AIML INSHORTS

Department of Artificial Intelligence and Machine Learning

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**The best brain of the nation may
be found in the last benches of
the classroom**

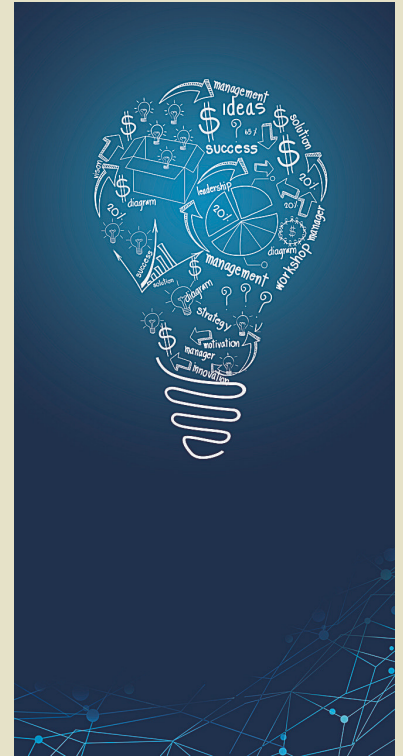
-APJ Abdul Kalam



DEPARTMENT VISION AND MISSION

VISION

To be a department focused on quality education and research in Artificial Intelligence & Machine Learning that prepares early professionals contributing to serve the society.

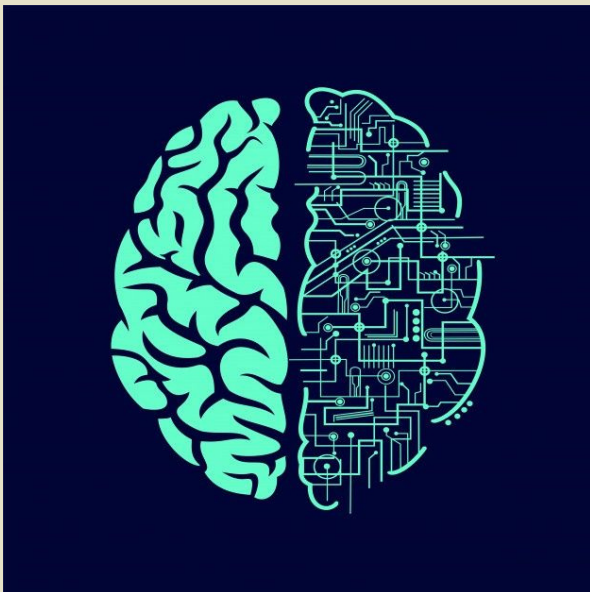


MISSION

To provide an academic environment for the development of professionals in the field of Artificial Intelligence and Machine Learning.

To cultivate research culture resulting in knowledge and development of the society.

To enhance academic collaborations for better exposure.





ADD ON MM COURSE REVIEW

Add on Course **MATHEMATICAL MODELING**

WHAT YOU'LL LEARN

- Basics of Statistics and Probability
- Measures of Dispersion
- Correlation and Regression
- Basics of Linear Algebra

WHAT WILL YOU ACHIEVE

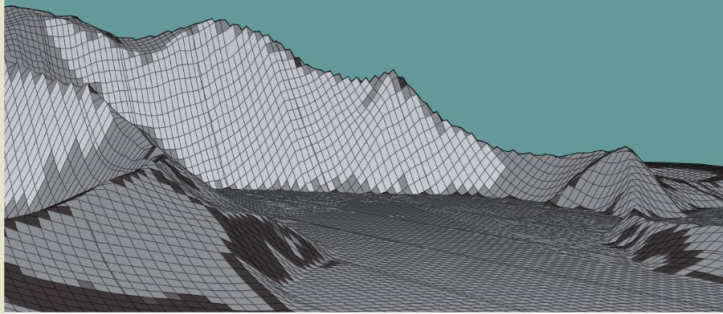
- Apply the concept of statistics to the engineering problems in data science, machine learning, and AI.
- Apply the concept of different regression models for computing data.
- Understand variety of real life probabilistic situations using assignment, transportation, travelling salesman techniques.
- Understand the application of linear algebra in data engineering, Machine learning, and AI.



DURATION of Program
24 hours (online mode)



SEATS
Open for all Second Year Engineering students of UCOE



Vidya Vikas Education Trust's
Universal College of Engineering
(Permanently Unaided) | Approved by AICTE, DTE & Affiliated to University of Mumbai
Recognised as GUJARATI Linguistic Minority Institution | Accredited with B+ Grade by NAAC

DTE CODE: 3460

We have successfully completed the Add on course "Mathematica Modeling" and at the end of the course students were supposed to present an application case.

Students' review on the course:

This month we completed our theory as well practical sessions and we were able to learn how to relate mathematics and coding in real world.

At the end of the session, we were been evaluated on an Application Case presentation. This was our first presentation after the pandemic and the best opportunity to boost the student's confidence level and the overall course was held in very smooth manner.

Based on their presentation performance students will get certificates.



HONEYWELL CENTER OF EXCELLENCE FOR YOUTH EMPOWERMENT/WOMEN EMPOWERMENT

Honeywell Center of Excellence for Youth Empowerment/Women Empowerment Inaugurated in Universal College of Engineering by ICT Academy

Recognizing India's need for a future-ready workforce, Honeywell Center of Excellence for Youth Empowerment/Women

Empowerment Inaugurated in Universal College of Engineering by ICT Academy. The center aims to empower the students of the institution with digital skills such as Big Data Analytics, AI, ML, RPA etc.

The Center of Excellence will train 100 students on advanced technologies, provide global certification from tech giants, facilitating placements for certified students.

As Industry 4.0 transforms the world of work, new tech-tools are increasingly being adopted. This globally recognized certification program will benefit engineering, arts and science colleges in tier 1 & 2 cities of Karnataka, Tamil Nadu and Maharashtra, and budding bright students from rural and marginalized sections of the society. Dedicated centers for students demonstrates ICT Academy's commitment towards women & youth empowerment, with the objective of realizing a diverse and inclusive workforce in the country.

The training program comprises of 100 hours of learning and opportunities for the students to participate in the hackathons, and youth empowerment summit. Apart from the students four faculty members will be trained on the advanced technology.

A CSR initiative by **Honeywell** Implemented by **ICTACADEMY**

Inauguration of **CENTER OF EXCELLENCE FOR YOUTH EMPOWERMENT**

17 Nov 2021
(10:00 am - 12:00 pm)

Hosted by **Universal College of Engineering**
Vidya Vikas Education Trust's
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 Gujarati Linguistic Minority Institution

INAUGURAL SPEAKERS

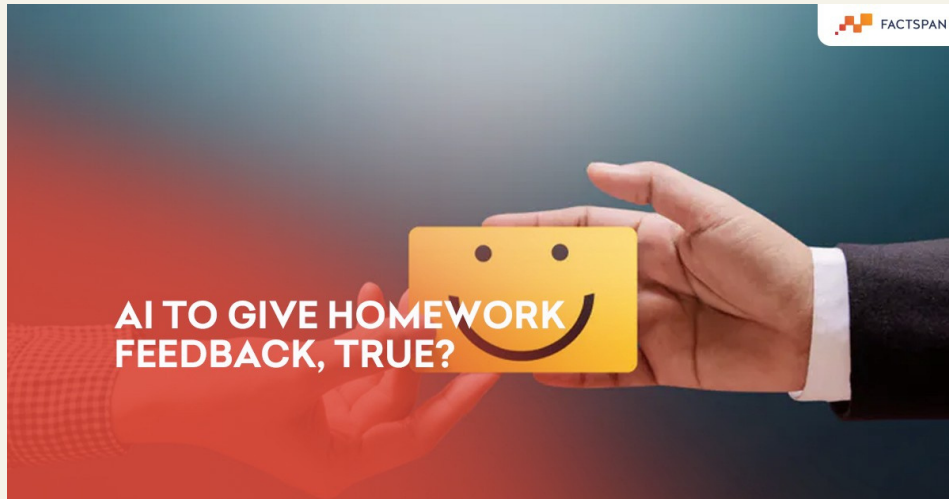
			
Ashish Gaikwad President (Interim) Honeywell India	Suresh Babu L Head- Corporate & Government Initiatives, ICT Academy	Sundaraman G State Head - Maharashtra & Gujarat ICT Academy	Dr J B PATIL Principal Universal College of Engineering

www.ictacademy.in/honeywell



AI REALM

AI TO PROVIDE HOMEWORK FEEDBACK, TRUE?



Researchers at the Worcester Polytechnic Institute in Massachusetts developed AI to provide detailed task feedback for students, funded with \$ 1 million from the National Science Foundation of USA. The tool is the result of three years of research on neural networks that can learn skills by aggregating large amounts of data. The team's work is based on "ASSISTments", a free math homework tool that helps teachers track student progress, made in the past two decades by WPI computer science professor Neil Heffernan.

According to their website, the platform is now used by around 20,000 teachers and 500,000 students in 20 countries. The new artificial intelligence from ASSISTments, called QuickComments, uses the principles of machine learning and natural language processing to suggest what kind of comments a teacher could leave students. according to Heffernan, who led the investigation.

From the Looks of It

The AI primarily focuses on writing and answering math problems for students that require a more nuanced approach than just marking answers as right or wrong. Written answer questions have become more common in math courses as K12 schools increasingly use digital learning models. The AI gives teachers the ability to choose from a variety of comments for feedback and explanations of their accuracy.

"Now, we're grading them and suggesting comments to the teacher," Heffman said. "We're telling the teacher, 'Here are three options for a comment you should send to the student.'"

The function is being tested by a handful of teachers for around 5,000 students, mainly in elementary and middle school, in the beta version. It is reported that the tool has proven useful so far and feedback on the platform has increased as researchers work to improve the AI movement.

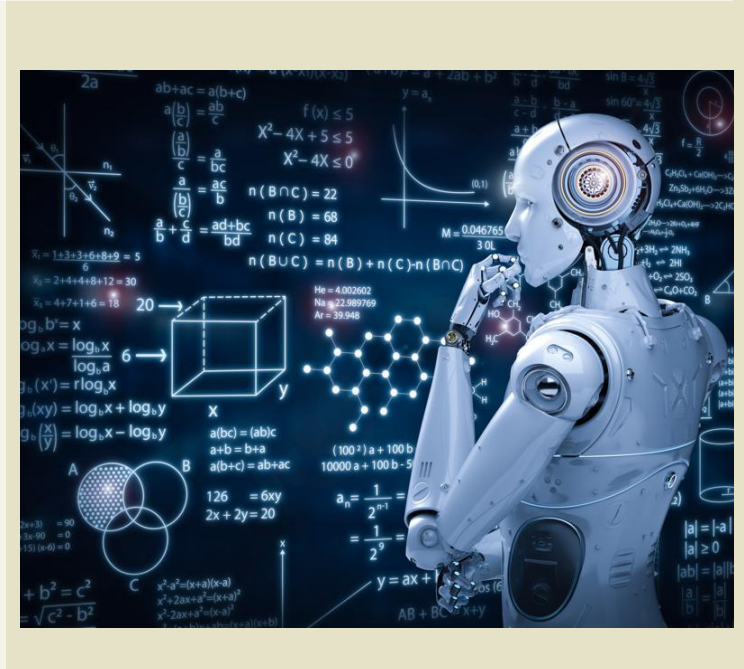
Courtesy- Factspan Analytics Inc.



MAN VS MACHINE

SECURITY AND PRIVACY THROUGH ML

The Internet of Things (IoT) is a network of universally interconnected devices via the Internet. The IoT requires the interconnection between billions or trillions of intelligent objects. IoT devices (nodes) are capable of capturing, preserving, analyzing, and sharing data about themselves and their physical world.



Security and privacy are the major challenges in the implementation of IoT technology. Major privacy aspects in the IoT are stealing data, monitoring, and tracking, etc. Authentication, integrity, and confidentiality are major concerns for privacy and security preservation in the IoT. Computational intelligence (CI) focuses on the design and development of intelligent algorithms to solve real-time problems with minimum cost. The main goal of CI is to supplement natural and artificial intelligence to produce human-required competitive results. Computational intelligent mechanisms for providing privacy and security in the IoT include quantum cryptography, artificial intelligence, neural networks, natural computational techniques, bio-inspired computational techniques, fuzzy logic techniques, genetic algorithms, intelligent multiagents, etc.



FACTS AND GAMES

Across

2. Creates a feeling of flowing in the arrangement.
4. T_____ - Name of basic floral design shape.
5. Floral design is offset, and is not equal on each side.
9. Creates the accent and interest. It will catch the eye of the viewer.
10. Draws attention to the design.
13. C_____ - Name of basic floral design shape. Round-like
15. _____ is achieved when the flower size and container flow together and complement each other.

Down

1. Floral design can be divided in half and be equal on each side.
3. H_____ - Name of basic floral design shape.
6. Floral designs need to be at least one and one-half to two times the height or width of the _____.
7. Created in a floral design when all the parts flow together to give a completed look to the arrangement.
8. H_____ - Name of basic floral design shape.
11. The size of the flowers, where the arrangement is to be used, placement of the arrangement and overall size.
12. Flowers in the arrangement must complement each other through color, size and shape.
14. C_____ - Name of basic floral design shape. Moon-like

DID YOU KNOW?

It has become apparent within AI research that Machine Learning (ML), Deep Learning (DL), and Neural Networks, in general, are not mechanisms that lend themselves readily to “one-shot learning”.



REACH US



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UCoEKaman



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