EDITION #1

29TH FEB `24

AIML SPOTLIGHT

MONTHLY NEWSLETTER

AIML COMMUNITY MUJ

FROM THE DESK OF DIRECTOR, SCSE

"I'm writing to offer an inviting atmosphere to our school and to keep you notified of the incredibly enthusiastic series of events that are happening currently. At Manipal University Jaipur, we pride ourselves on offering a vibrant learning environment and keeping you updated on our exciting events.

Renowned for our top-notch Computer Science and Engineering programs, accredited by NBA, we provide a comprehensive curriculum with a focus on real-world applications. Our offerings include M.Tech CSE(AIML), B.Tech CSE, and B.Tech CSE (AIML), tailored to equip students with the skills to thrive in a dynamic world. Through industry collaborations and hands-on projects, we foster an entrepreneurial spirit, preparing students to not only enter but also innovate in the job market. Partnering with leading IT firms, we ensure our students receive unparalleled opportunities. Feel free toreach out for any inquiries."

~ Dr Sandeep Chaurasia

FROM THE DESK OF HOD, AIML

"On Behalf of the Department of Artificial Intelligence and Machine Learning at Manipal University Jaipur, I extend my heartfelt congratulations on the release of our inaugural newsletter!

This moment marks a significant milestone in our journey as the AIML community. Since its formation in October 2023, the AIML Community has flourished, bringing together professionals from industry and students alike, fostering collaboration, knowledge sharing, and innovation.I want to take this opportunity to express my deepest gratitude to our esteemed Director Dr Sandeep, HoD CSE Dr Neha & my colleagues for their support and guidance, which has been instrumental in shaping the vision and direction of the community. I also extend my sincere appreciation to Dr. Varun and the entire student team for their tireless efforts and exceptional work in bringing this newsletter. Once again, congratulations to everyone involved in the continued growth and success of our AIML Community."

~ Dr Santosh Kumar Vishwakarma

DID YOU KNOW??

When & where was the term "AI" officially coined ?

CALLING ALL AMBITIOUS GO-GETTERS! YOUR INTERNSHIP AND PLACEMENT JOURNEY STARTS HERE.

Whether you're searching for internships to gain valuable experience or seeking that perfect first job, we've got you covered. Summer Research Internship Program IITGN,Seagate Technology ,Philips & many more are waiting for you!!

ICCAIML CONFERENCE `24

Manipal University Jaipur hosted ICCAIML'24, bringing together researchers, academics, and industry leaders for impactful discussions. The conference showcased pioneering research in AI and ML, fostering collaboration and innovation. Stay tuned for insights on the event's highlights!

EXCITING NEWS! DELL TECHNOLOGIES 3-MONTH HACKATHON WINNERS ANNOUNCED!

We're thrilled to announce the winners of the recently concluded Dell Technologies 3-Month Hackathon! With 20 teams and 100 students competing, the journey was intense and demanding. The winning team,consisting of incredible talents, clinched the top spot after facing numerous challenges head-on. Stay tuned for the detailed article inside to learn more about this thrilling event.

DEPARTMENT LEVEL EVENTS

ICCAIML'24 CONFERENCE

The Department of Artificial Intelligence and Machine learning of Manipal University, Jaipur hosted the first edition of the two-day International Conference Computation of Artificial Intelligence and Machine Learning (ICCAIML'24) on January 18-19, 2024.The conference Inauguration Ceremony was held in the Smt. Sharda Pai Auditorium, Academic Block 2 at Manipal University Jaipur. The event basically provides a platform for Researchers, Academics and Industry experts to explore and discuss the latest Advancements in the field of Artificial Intelligence and Machine Learning. The Chief Guest of our Conference inaugural, Prof. Milan Tuba of Singidunum University, Serbia informed about the innovations and opportunities happening in Artificial Intelligence at the global level.

In a warm welcome address, University President Prof. G K Prabhu highlighted the remarkable achievements of MUJ. Dean Prof. Arun Shanbag extended his best wishes to the organizing committee, welcoming all participants to the conference. Dr. Santosh Vishwakarma announced that out of 215 papers submitted from both national and international contributors, 60 would be presented during the two-day conference. The event, held in hybrid mode, featured distinguished speakers such as Dr. Elisabeth from the University of Applied Sciences and Arts, Switzerland; Dr. Amit Gajbhiye from Cardiff University, United Kingdom; and Dr. Thattaporn from King Mongkut University, Thailand, who delivered technical lectures.

The conference included two major tracks: Artificial Intelligence and Machine Learning. A Poster Presentation was organized as part of ICCAIML'24, providing an avenue to showcase research papers, enhance presentation skills, network with researchers and professionals, and vie for a prize pool of Rupees Ten Thousand.

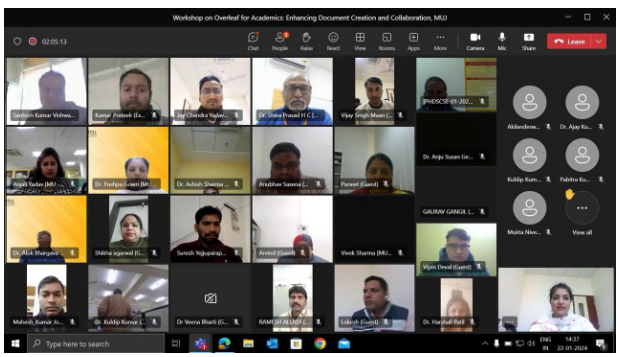
DELL HACKATHON

In a bid to foster collaboration between academia and industry, Manipal University Jaipur recently hosted an Industry Hackathon sponsored by Dell Technologies Limited. The event aimed to address real-world challenges faced by industries while providing a platform for students to showcase their problem-solving skillDirector SCSE Prof. Sandeep Chaurasia said that solutions to about 20 problems of the industry were found. More than 500 participants participated in this competition which has been going on for the last two months and found innovative solutions under the guidance of mentors from Dell Technology.

The competition concluded in the university campus in which the two winning teams were given 24-inch state-of-the-art desktops as prizes. Dell Technologies, Vice President, Ramesh Jampula; Senior Director, Sujai Thomas; Director, Raghu Yegwakota,werepresentduringtheclosingceremony.

AI FACTS

The term “Artificial Intelligence” (AI) was first coined by John McCarthy in 1956, ahead of the Dartmouth Conference in the summer of 1956.



OVERLEAF FDP

In the wake of the exhilarating three-days online workshop on “Overleaf for Academics: Enhancing Document Creation and Collaboration, 22nd January 2024 to 24th January 2024” organized by the esteemed Department of Artificial Intelligence and Machine Learning, School of Computer Science and Engineering in collaboration with the Directorate of Research, we extend our heartfelt gratitude to each one of you for making this workshop a memorable and enriching experience. Your passion for learning and dedication to academic excellence are truly commendable. In addition to fostering collaboration, the workshop equipped participants with practical skills and insights that will undoubtedly enhance their academic pursuits and research endeavors. We are immensely grateful for your active engagement and look forward to further academic advancements together.

STUDENT ORIENTATION

Held on January 11, 2024, at the Sharda Pai Auditorium

Here are the key takeaways from the insightful session:

• Internship Opportunities: Discover a plethora of internships awaiting you.

• Student Travel Support & PRAISE Scheme: Avail assistance for your academic ventures and explore the PRAISE Scheme.

• AIML Community & Proposed Events: Engage with like-minded peers and stay updated on upcoming events.

• GATE Exam in Data Science and ML: Prepare yourself for the GATE Exam in these cutting-edge fields.

• Opportunities in ECell & Incubation: Explore entrepreneurial opportunities and incubation programs.

• Grievances Redressal System: Learn about the system in place to address your concerns effectively.

• Various Processes: Gain insights into the various processes vital for your academic journey.

Missed the session? Reach out to us for more information!

AI FACTS

AI DETECTS LOST CITIES: USING SATELLITE IMAGERY AND MACHINE LEARNING, AI HAS HELPED ARCHAEOLOGISTS DISCOVER ANCIENT LOST CITIES AND STRUCTURES, UNCOVERING NEW INSIGHTS INTO HUMAN HISTORY.

ACHIEVEMENTS

FACULTY

DR. HARISH SHAKYA

FOR IETE MEMBERSHIP

MR. HARISH SHARMA

FOR MENTORING DELL HACKATHON

DR.AMIT BAIRWA SIR

FOR IEEE SENIOR MEMBER

STUDENTS

ARPIT SINGH GAUTAM

FOR 1ST POSITION IN DELL HACKATHON

AARYAN GUPTA

FOR PUBLISHING JOURNAL ON TOPIC "AI'S POTENTIAL FOR MANAGEMENT & BUSINESS IN THE HEALTHCARE INDUSTRY "

INTERNSHIP OPPORTUNITY

SUMMER RESEARCH INTERNSHIP PROGRAM IITGN

It will allow undergraduate and master students to participate in cutting-edge research projects; they undergo mentorship by IITGN faculty and get exposure to the state-of-the-art laboratories and instrumentation facilities available on campus.

The last date to apply till March 5th, 2024 and it will be for 8 weeks, within the summer break of IITGN. Students pursuing a bachelor's or master's degree at a prominent institution in India.

APPLY HERE

SEAGATE TECHNOLOGY

Status- Ongoing and On-site Internship

Details-

• Help develop and optimize Large Language Model based analytics solutions to revolutionize business operations

• Be part of a product team of 6-8 Data science, ML and Platform Engineers that are the crux for developing and maintaining Machine Learning/ advanced analytics platforms and Big Data solutions

Leverage ChatGPT / OpenAi, Azure Openai or Google Vertex AI or other open source LLM to help users intuitively and efficiently access large databases

•Work on seamless integration of LLM models with existing platforms

• Collaborate with data scientists, data engineers and Business SMEs to end-to-end Analytics platform and supporting infrastructure

Experience-

• Proven hands-on or research experience in developing Natural Language Processing models
• Understanding of generative AI tools and techniques

• Strong programming background in Python

• Familiarity with SQL

• In depth knowledge and working experience on the various aspects of training and deployment of deep learning solutions in TensorFlow or PyTorch

APPLY HERE

DID YOU KNOW ?

When & which was the first computer to compose the 1st "AI Generated Song"?

PHILIPS

Role as a Software Engineer Intern for the Batch of 2025 in Bangalore/Pune.

Status- Deadline passed on 15th February, 2024

Stipend- Rs 45,000 per month

Eligibility-
1: Student should complete his/her Post-Graduation in the year 2025.

2: Should have scored minimum 70% or equivalent in his/her 10th, 12th , Graduation Or PG as on date.

3: Only 2 Years Gap allowed (not between graduation years)

4: No active ATKT/Backlog till 5th/6th semester or during Philips process.

UPLINK IKDD RESEARCH AND INTERNSHIP PROGRAMME

Status- Ongoing till March 10th

Stipend- Rs 50,000

Duration- 3 Months

APPLY HERE

Details- For in-campus internships, the faculty mentor will assist the student for accommodation. IKDD will reimburse a maximum of 5,000 INR for travel between the student's hometown and the internship location upon presentation of receipts.
The student will be recognized with an 'ACM IKDD Uplink Intern' badge on successful completion of the internship.

If the internship works result in a paper acceptance at a relevant CORE-A* conference, IKDD will support the conference registration and travel for one of the authors of the paper. If the paper gets published in a CORE-A conference, IKDD will support the conference registration for one of the authors.
We plan to support about 12 students in the 2024 edition.

Eligibility- The student must be enrolled full-time in a bachelors or masters program in a degree granting institute in India.

A bachelors candidate must be studying in the 3rd year of the program and a masters candidate must be studying in the 1st year of the program at the time of application deadline on Mar 1, 2024.

There are no restrictions on the department or specialization area of the student as long as they meet other eligibility criteria.

The student must get a no-objection letter from the institute for enrolling in this internship. While the letter will be sought only if a student gets selected for the internship, we strongly recommend checking feasibility of the same prior to application.

The student should ideally have a strong background in fundamental subjects such as probability, statistics, linear algebra, excellent coding skills, and completed courses in machine learning / deep learning. Prior experience of executing projects related to data science is ideal.

ARTICLES

FEDERATED LEARNING: A GAME-CHANGER IN AI

“In the rapidly evolving landscape of Artificial Intelligence (AI) and Machine Learning (ML), Federated Learning emerges as a transformative technology, promising to revolutionize data privacy, scalability, and collaborative learning across distributed networks. Recent advancements in secure aggregation protocols and tailored optimization techniques have enhanced its efficiency and applicability across various domains. However, challenges such as data heterogeneity and security concerns persist, requiring robust solutions for widespread adoption. With its potential to reshape industries and empower decentralized intelligence, Federated Learning stands as a beacon of innovation in the AI-driven future.”

~Dr. Varun Tiwari

UNDERSTANDING AI

What is AI?

At the outset of our journey to develop AI, our goal was to create a machine capable of thinking like a human. However, AI today is much more than that. It encompasses a variety of algorithms designed to identify patterns and solve complex problems efficiently, particularly those involving large datasets. This capability reduces the need for extensive manpower and time, allowing resources to be allocated more effectively elsewhere.

Weak AI Vs Strong AI

AI can be broadly classified into two types:

Weak AI

Also known as narrow AI. This type of AI has specialy been developed to optimize and complete a certain task. Some examples are industrial robots used in manufacturing cars and Assistants like Apple’s siri

Strong AI

Also known as Artificial General Intelligence (AGI), is a type of AI that can think and act like a human. Such types of AI are only theoretical have not been developed yet.

Types of AI

In today’s world, we primarily have two types of AI:

Reactive Machine:

A reactive machine AI is like a robot that follows strict rules without learning from its experiences. It reacts to specific situations based on predetermined instructions, but it can’t remember past events or improve its responses over time. Examples of reactive machine AI include basic chatbots or decision-making systems that follow strict logical rules.

Limited Memory:

This type of AI, as the name suggests, has a limited amount of memory where it can store data and learn from them to improve its future results. However, this memory is not extensive, so the machine’s capacity to improve is limited. Examples of limited memory AI include recommendation systems that remember recent preferences.

The other two types of AI are:

Artificial Superintelligence (ASI):

Artificial Superintelligence (ASI) would be smarter than any human or man-made AI. In theory, it would be capable of performing tasks previously thought impossible, solving complex unsolved problems, discovering new things, and potentially finding cures for currently incurable diseases.

Conscious AI:

This type of AI, imagined by John McCarthy in 1956, would be capable of understanding its own existence and possessing emotions and experiences similar to humans. It would give human like responses to problems.

AI across different Sectors

Healthcare:

AI is used to analyze medical images, such as X-rays and MRI scans, to assist in detecting abnormalities and diagnosing diseases. It can also analyze patient data, such as genetic information and medical history, to aid in personalized treatment plans.

Finance:

AI analyzes past market data, identifies patterns, and predicts which stocks will rise or fall. It also considers market sentiment from social media and news articles. This helps maximize profits.

Transportation:

AI-driven self-driving cars have advanced significantly in the past decade. With the aid of numerous cameras and sensors, AI can perceive its surroundings, enabling it to navigate routes and make real-time driving decisions without human intervention. Additionally, AI plays a significant role in traffic management by analyzing traffic patterns, predicting congestion, and optimizing traffic flow to reduce travel time.

Weather:

AI algorithms analyze vast amounts of meteorological data from various sources like satellites and weather stations.These algorithms can identify patterns and trends in historical weather data to predict future weather conditions with greater accuracy. AI models can also incorporate real-time data and updates to refine forecasts and provide timely warnings for severe weather events, such as hurricanes, storms, and heatwaves.

IT:

AI has many applications in the IT sector in fields like cybersecurity, Data analytics and software development to name a few. AI powered security systems can detect and prevent cyber threats with much more accuracy and reliability. AI algorithms can analyze big data and can uncover trends and patterns. Machine learning and automated code generation are used extensively to improve code quality and accelerate development process. Sub-sets of AI

There are several sub-sets of artificial intelligence here are some of the most common:

Machine learning:

Machine learning involves developing algorithms and models that can learn from large datasets and make predictions without being explicitly programmed to do so. There are various techniques to train a machine learning model, including supervised learning, unsupervised learning, and reinforcement learning.

Deep learning:

Deep learning is a subset of machine learning, which itself falls under the umbrella of artificial intelligence. Deep learning focuses on developing neural networks with multiple layers that can learn from data and make precise predictions. These neural networks are inspired by the workings of the human brain, consisting of nodes called neurons arranged in multiple layers. Data is processed at each node and passed as input to the following layer. By adjusting the connections between nodes of different layers, a neural network can learn from data and make connections.

Natural Language Processing (NLP):

NLP focuses on enabling computers to understand human language, much like a human does. It employs various techniques, including Language Understanding: Extracting meaning from text or speech. Language Generation: Generating human-like responses based on input. Language Modelling: Predicting the next word in a sequence of texts.

DID YOU KNOW? WHICH BECAME THE FIRST AI TO DEFEAT A REIGNING WORLD CHESS CHAMPION, GARRY KASPAROV ?

AI INDIA

Budget Related

Nirmala Sitharaman's Interim Budget 2024-25 aims to focus on emerging technologies like Artificial Intelligence (AI) and Machine Learning (ML) in various public services, including taxation, agriculture, education, and healthcare. The budget calls for increased investments in AI and research in areas such as quantum computing, digital nudge for social good, Explainable AI (XAI), Gen Chem and Computational Biology, and smart and connected cities. The government's role in promoting academia-industry collaboration is also crucial. The budget includes a promotion of the Public-Private Partnership (PPP) model, with value-based implementation. India's AI strategy focuses on social impact and has prioritized agriculture, education, and healthcare sectors. Cyber-resilience is also a key focus, with the Digital Personal Data Protection Act (DPDP) being a great beginning. The budget calls for a committee to prioritize innovation using AI in government departments and a central committee of AI/ML experts.

The central and multiple state governments have launched various schemes to push AI adoption in India. Some of these schemes are "AI for all" by Niti Ayog, and Chair at GPAI in the current G20 summit. MeitY also plans to launch IndiaAI, Bhasini Programme, and YuvAI for skilling Indian youth by the central government. Similarly, states like Tamil Nadu, Telangana, and Karnataka have also launched schemes to boost the use of AI.

Source-https://www.fortuneindia.com/budget-2024/budget-2024-ai-to-be-a-big-theme-in-interim-budget-heres-why/115590#:~:text=Finance%20Minister%20Nirmala%20Sitharaman's%20Interim,and%20healthcare%2C%20to%20make%20the

Elections Related

Generative AI, an advanced branch of AI that can generate text and images based on prompts, is beneficial in various sectors such as customer care, healthcare, food and beverages, and education. However, concerns about its abuse and consequences have raised concerns among stakeholders, including people, government, and technologists working in new frontiers of AI. OpenAI, a US-based AI research and deployment company, has launched apps like ChatGPT, DALL-E 2, and Whisper, which help create texts, audio, and video for online users with prompts. However, the effectiveness of apps to verify fake videos is not yet sufficient, and the world is heading for elections in countries like the US, India, Indonesia, Mexico, and the UK over the next one and a half years. Deepfakes, including nude videos and photos, have the potential to threaten individual privacy and influence elections around the world. In the recent elections in Argentina, AI was widely used, setting in motion a trend that is expected to be zealously pursued in other countries.

India has surpassed the United States in smartphone users as early as 2017, with a penetration rate of close to 71% by 2023. The country has made significant strides in technology, with Prime Minister Narendra Modi being the first to use holograms for an election campaign. However, the use and misuse of AI in India have been a topic of debate. For example, the government attacked WhatsApp for enabling lynchings of minority community members, leading to the company implementing controls to combat dangerous content sharing. This led to the collaboration of social media giants and media groups to check for fake news and content damaging to groups and individuals. The use of AI in India is a testament to the country's commitment to technology and innovation.

Source- https://sputniknews.in/20231121/artificial-intelligence-to-change-elections-in-india--worldwide-5493211.html

AI FACT

IN 1997, IBM'S DEEP BLUE BECAME THE FIRST AI TO DEFEAT A REIGNING WORLD CHESS CHAMPION, GARRY KASPAROV, MARKING A HISTORIC MOMENT IN AI DEVELOPMENT.

Potential with AI

The concept of "China plus one" is gaining traction, with India being the most likely beneficiary of this shift. With a growing infrastructure investment, favorable policies, and a young working population, India is poised to match the scale of China. With a population of 1.4 billion people, India is closer to a continent than a country, and its young people are aspirational and motivated to use every opportunity to better their lives.

India's unique challenges and needs set it apart from the West. The country's diverse population and complex socioeconomic concerns mean that AI is not just about developing cutting-edge technology but also finding innovative solutions to address pressing problems in health care, education, agriculture, and sustainability.

India's language barrier and low official literacy rate make it difficult for people to access welfare assistance. AI can help bridge this access gap by enabling people to access services directly with their voice using natural language, empowering them to help themselves. As Canadian writer William Gibson aptly said, "The future is already here—it's just not evenly distributed." India sees potential today, and the rest of the world is eyeing AI with curiosity, waiting for real-use cases. The Indian government and EkStep foundation have launched an AI chatbot, PM-Kisan, to streamline India's direct benefit transfer program for farmers. The chatbot allows farmers to access eligibility, application status, and payments using their voice. Over 500,000 users have benefited from the bot, and features are being gradually released to ensure a safe and risk-managed rollout. This trend extends beyond the government, as India's tech ecosystem is thriving, with the largest number of developers on GitHub. The Indian start-up ecosystem is actively working on AI solutions to address various challenges. AI can also be a game changer in education, helping close the literacy gap and enabling students to learn in their native languages and English. AI's applications extend to teachers, who are often overwhelmed by administrative tasks. India needs a strategic plan to capitalize on AI opportunities, focusing on the problems people face that existing technology has not been able to solve. Organizations like EkStep have stepped up with a People+AI mission, focusing on the problems of people, leading to surprising new uses unique to India. India's emerging status as a technological powerhouse and unique socioeconomic landscape puts it in a favorable position to be the world's most extensive user of AI by the end of this decade.

Source- https://www.imf.org/en/Publications/fandd/issues/2023/12/POV-unlocking-india-potential-with-AI-Nilekani-Bhojwani#:~:text=In%20September%202023%2C%20the%20Indian,who%20own%20their%20own%20land

AI FACT

IN 1956, AN IBM 7090 COMPUTER WAS PROGRAMMED TO SING "DAISY BELL," BECOMING THE FIRST COMPUTER TO CREATE MUSIC AND INSPIRING HAL'S FINAL SONG IN "2001: A SPACE ODYSSEY."

AI HUNT

WINNERS WILL BE DECLARED IN IN NEXT EDITION WITH ANSWERS

SUBMIT YOUR ANSWERS ON THE GOOGLE FORM BY MONTH END (ATTACHED AT THE LAST)

-> THIS TYPE OF MACHINE LEARNING INVOLVES TRAINING A MODEL USING LABELED DATA, WHERE EACH EXAMPLE HAS A KNOWN OUTPUT. THE MACHINE LEARNS TO PREDICT OUTCOMES FOR NEW, UNSEEN DATA BASED ON THIS TRAINING1.

-> THE OPPOSITE OF ACROSS-1

-> AI THAT LEARNS OPTIMAL ACTIONS IN DYNAMIC ENVIRONMENTS FOR MAXIMUM REWARD THROUGH INTERACTIONS AND FEEDBACK.

-> USED IN TIME SERIES ANALYSIS, STOCK MARKET PREDICTIONS, AND WEATHER FORECASTING.

-> MODELS THAT CREATE NEW DATA SAMPLES BASED ON LEARNED PATTERNS. EXAMPLES INCLUDE GENERATIVE ADVERSARIAL NETWORKS (GANS) AND VARIATIONAL AUTOENCODERS (VAES).

-> AN AUTOMATED PROGRAM THAT INTERACTS WITH USERS THROUGH NATURAL LANGUAGE,OFTEN USED FOR CUSTOMER SUPPORT, VIRTUAL ASSISTANTS, AND ONLINE MESSAGING.

-> A COLLECTION OF DATA POINTS USED FOR TRAINING AND EVALUATING MACHINE LEARNING MODELS. IT CAN BE LABELED (FOR SUPERVISED LEARNING) OR UNLABELED (FOR UNSUPERVISED LEARNING).

-> THE PROCESS BY WHICH A MODEL IMPROVES ITS PERFORMANCE OVER TIME THROUGH EXPO SURE TO DATA AND FEEDBACK.

-> A REPRESENTATION OF A SYSTEM OR PHENOMENON USED FOR PREDICTION, CLASSIFICATION, OR DECISION-MAKING.

-> THE USE OF TECHNOLOGY TO PERFORM TASKS WITHOUT HUMAN INTERVENTION.

-> REFERS TO LARGE AND COMPLEX DATASETS THAT REQUIRE SPECIALIZED TECHNIQUES FOR STORAGE, PROCESSING, AND ANALYSIS.

-> A MATHEMATICAL FRAMEWORK THAT DEALS WITH UNCERTAINTY AND IMPRECISION. USED IN CONTROL SYSTEMS, DECISION-MAKING, AND NATURAL LANGUAGE PROCESSING.

-> FINITE SEQUENCE OF RIGOROUS INSTRUCTIONS

-> THE FIELD OF STUDY FOCUSED ON ENABLING COMPUTERS TO UNDERSTAND, INTERPRET, AND GENERATE HUMAN LANGUAGE.

-> IDENTIFYING REGULARITIES OR STRUCTURES IN DATA. USED IN IMAGE RECOGNITION, SPEECH PROCESSING, AND ANOMALY DETECTION.

-> A SUBFIELD OF AI THAT ENABLES MACHINES TO INTERPRET AND ANALYSE VISUAL INFORMATION FROM IMAGES OR VIDEOS.

-> TECHNIQUES FOR MANIPULATING AND ENHANCING DIGITAL IMAGES. USED IN MEDICAL IMAGING, PHOTOGRAPHY, AND COMPUTER GRAPHICS.

-> THE DESIGN, CONSTRUCTION, AND OPERATION OF ROBOTS. INTEGRATES KNOWLEDGE FROM MECHANICAL ENGINEERING, ELECTRONICS, AND AI.

-> DETERMINING THE EMOTIONAL TONE OR SENTIMENT EXPRESSED IN TEXT DATA. APPLIED IN SOCIAL MEDIA MONITORING, CUSTOMER REVIEWS, AND MARKET RESEARCH.

-> THE PROCESS OF EXTRACTING KNOWLEDGE OR INSIGHTS FROM LARGE AMOUNTS OF DATA USING VARIOUS STATISTICAL AND COMPUTATIONAL TECHNIQUES

-> EXAMINING DATASETS TO UNCOVER USEFUL INFORMATION THAT CAN BE USED TO MAKE INFORMED DECISIONS

-> TYPE OF MACHINE LEARNING THAT USES NEURAL NETWORKS WITH MULTIPLE LAYERS TO LEARN AND MAKE PREDICTIONS FROM COMPLEX DATA.

-> THE INTERDISCIPLINARY FIELD OF EXTRACTING KNOWLEDGE AND INSIGHTS FROM DATA THROUGH STATISTICAL, COMPUTATIONAL, AND ALGORITIMIC METHODS.

-> A CLASS OF MACHINE LEARNING MODELS INSPIRED BY THE HUMAN BRAIN.

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