Jio Institute

Newsletter

One-year, Full-time, Residential PGP in

- Artificial Intelligence & Data Science
- Management (specialisation in Marketing)
- Sports Management

"Education is all about igniting young minds and enabling them to attain their fullest potential."

Nita M. Ambani
Founder Chairperson,
Reliance Foundation Institution of
Education & Research

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AI & DATA SCIENCE CONCLAVE

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Digital Transformation Using AI: Redefining the Future of Business through Artificial Intelligence

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In a significant initiative, Jio Institute students organised a panel discussion featuring industry leaders and AI experts to discuss the transformative role of Artificial Intelligence (AI) across sectors. This event spotlighted how AI is reshaping industries, from agriculture to automotive, through insights shared by representatives of renowned organisations, including Hinduja Group and Mahindra Tech.

Dr. Shailesh Kumar,
Chief Data Scientist, Center of Excellence for AI/ML, Reliance Jio

Dr. Shailesh Kumar, the Chief Data Scientist, Center of Excellence for AI/ML, Reliance Jio, commenced the session with an insightful and thought-provoking introductory address, emphasising the pivotal role of Artificial Intelligence (AI) as the primary driver of innovation in today's rapidly evolving technological landscape. He opened by highlighting the transformative potential of AI, acknowledging its ability to revolutionise industries by enabling smarter decision-making, increasing operational efficiency, and unlocking new avenues for growth.

Dr. Kumar's words set the stage for an engaging and in-depth dialogue about AI's far-reaching impact across various sectors, including telecommunications, healthcare, finance, retail, and beyond.Dr. Kumar urged all stakeholders, from corporate leaders to policymakers, to recognise AI as a key enabler of competitive advantage. He stressed the importance of harnessing its capabilities to address complex challenges and drive sustainable development. By leveraging AI's power to analyse vast amounts of data and extract valuable insights, organisations can optimise processes, enhance customer experiences, and foster innovation that directly translates into business success.

Dr. Kumar also emphasised the need for responsible and ethical deployment of AI technologies, ensuring that these advancements are used to benefit society as a whole. He encouraged collaboration between businesses, researchers, and regulatory bodies to create a conducive environment for the growth of AI, one that aligns with human-centric values and respects privacy and security standards.

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Transforming the Automotive Sector

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Redefining Quality and Precision

Mr. Mohit Kapoor,
Group Chief Technology Officer, Mahindra & Mahindra

Mr. Mohit Kapoor, Group Chief Technology Officer, Mahindra & Mahindra, presented a vivid picture of AI's integration within the automotive sector. Highlighting AI-powered computer vision systems, he explained how these technologies are revolutionising traditional quality inspection processes in car paint shops. Automated systems detect anomalies with unmatched precision, ensuring superior product quality while enhancing efficiency.

AR and Robotics in Production

Artificial Intelligence (AI) has become a key driver of innovation in modern manufacturing, particularly when combined with augmented reality (AR) and robotic systems. This dynamic synergy is transforming production workflows and elevating manufacturing capabilities across multiple industries, including automotive manufacturing. The integration of AR with AI enables operators on assembly lines to work more efficiently and with greater precision. Through AR-enabled headsets and smart glasses, workers can receive real-time instructions, visual overlays, and data that guide them in performing tasks, reducing the risk of human error and ensuring optimal performance.

One of the most remarkable uses of AR in production is in complex assembly processes where precision is critical. For example, AR can help workers assemble components with a high degree of accuracy by displaying step-by-step instructions and real-time feedback on the correct placement of parts. This significantly reduces errors in manual operations, resulting in better quality control and minimised rework. Moreover, AR can aid in spatial planning, allowing

manufacturers to optimise layouts on the production floor and make the most of available space, which enhances workflow and reduces unnecessary downtime.

In tandem, robotics powered by AI is revolutionising areas such as welding, painting, and material handling. AI-driven robotic systems can perform repetitive tasks with high speed and consistency, improving both productivity and operational accuracy. Robotic welding, for example, allows for the creation of intricate parts with consistent quality, while reducing the risks of human injury associated with manual welding. The combination of robotics and AI ensures that tasks are carried out with maximum efficiency, while simultaneously lowering operational costs. By optimising the balance between human workers and robots, manufacturers can boost productivity, reduce human error, and deliver high-quality products at faster rates, establishing new benchmarks in automotive manufacturing and beyond.

Transforming the Automotive Sector

Customer Experience Revolution

The customer experience in the electric vehicle (EV) market is undergoing a radical transformation, with AI playing a central role in reshaping how brands engage with consumers. Mahindra Tech, for instance, has leveraged AI to create a more personalised and immersive customer journey, redefining traditional ways of interacting with potential buyers. One of the most innovative examples of this shift is the use of metaverse-driven virtual test drives. These AI-powered virtual experiences allow customers to explore and interact with vehicles in a fully immersive, virtual environment. Instead of relying on a physical test drive, customers can experience the thrill of driving an EV from the comfort of their homes, making it easier and more accessible to explore the features of different models.

Additionally, racing simulations powered by AI offer an engaging way for customers to interact with Mahindra's EV models. These simulations provide users with a virtual racing experience, giving them a first-hand look at the performance and capabilities of the vehicles in various driving conditions.. By blending entertainment with product information, these innovations go beyond traditional marketing methods and create an emotionally engaging experience for customers, influencing their purchase decisions in powerful ways.

AI's impact also extends to online car sales. Mahindra Tech uses AI-driven personalisation tools to enhance the online car-buying process. AI algorithms analyse customer preferences, browsing behaviours, and historical data to provide tailored vehicle recommendations and finance options, streamlining the decision-making process. This level of personalisation not only improves the customer experience but also helps build customer loyalty by delivering a more relevant and enjoyable buying experience. Through these cutting-edge AI-driven innovations, Mahindra is setting a new standard for customer engagement in the automotive industry, significantly enhancing the overall EV buying experience and helping shape the future of retail in this space.

JioInstitute

Transforming the Automotive Sector

Mahindra Tech: Driving Innovation Across Multiple Fronts

Mahindra Tech continues to push the boundaries of automotive innovation, particularly in areas that blend artificial intelligence (AI), data analytics, and emerging technologies. The company is exploring ways to further enhance vehicle performance, safety, and efficiency through advancements in AI and predictive analytics. AI-powered computer vision tools, for example, are being used to streamline the quality assurance process in vehicle manufacturing. These tools can detect imperfections, such as scratches or dents, that might go unnoticed by human inspectors, ensuring that only the highest quality vehicles reach the market.

Moreover, Mahindra is experimenting with predictive analytics to anticipate maintenance needs and reduce downtime for its vehicles. Through the use of AI algorithms that analyse data from sensors embedded in the vehicles,

Mahindra can predict when parts are likely to fail and schedule maintenance proactively. This predictive approach extends the lifespan of vehicles, reduces the likelihood of costly repairs, and enhances the customer experience by preventing unexpected breakdowns. By implementing AI-powered maintenance strategies, Mahindra is improving its overall operational efficiency while ensuring that customers enjoy a higher level of reliability and satisfaction with their vehicles.

Smart sensors embedded in vehicles continuously collect data, which is then transmitted to cloud systems for real-time analysis. This data can include engine performance, battery health, and vehicle location, allowing Mahindra to gain deep insights into vehicle performance and detect potential mechanical issues before they become significant problems. By leveraging this real-time data analysis, Mahindra ensures that its vehicles are always operating at peak efficiency, providing a seamless driving experience for customers.

Transforming the Automotive Sector

IoT in Connected Vehicles

Mahindra's focus on the Internet of Things (IoT) technology is helping reshape the automotive industry by creating a network of connected vehicles. This technology enables vehicles to communicate with each other and with external infrastructure, such as traffic lights and parking systems. With IoT-powered connected car platforms, Mahindra vehicles can share real-time data with other cars on the road, allowing for improved traffic management and enhanced driving experiences.

One of the standout features of these connected car platforms is route optimisation. By using real-time traffic data, these systems can suggest the fastest and most efficient routes, taking into account factors like road closures, traffic congestion, and weather conditions. This not only reduces travel time for drivers but also contributes to reducing carbon emissions by optimising fuel consumption and minimising idle time.

Another key benefit of connected vehicle technology is predictive parking. IoT sensors installed in parking areas can communicate with vehicles to provide real-time updates on parking space availability. This helps drivers find parking spots more quickly and reduces the time spent searching for a space, enhancing the overall driving experience. Additionally, Mahindra's IoT-powered connected vehicles can provide real-time updates on vehicle diagnostics, enabling drivers to monitor the health of their cars and address maintenance needs before they become critical.

By integrating IoT into its vehicles, Mahindra is taking a significant step toward creating a smarter, more efficient transportation ecosystem. The ability to connect vehicles to one another and to external systems will continue to drive innovations in traffic management, energy efficiency, and vehicle safety, shaping the future of connected transportation.

Transforming the Automotive Sector

AR and VR in Customer Engagement

Mahindra Tech is not only transforming its manufacturing processes with the help of augmented reality (AR) and virtual reality (VR) technologies, but it is also leveraging these innovations to enhance customer engagement. One of the most impactful ways AR and VR are being used is in the creation of virtual showrooms. These showrooms, powered by AR, allow customers to explore vehicles in a virtual space, providing them with a fully interactive and immersive experience. Customers can visualise different vehicle configurations, including colour choices, interior options, and other customisations, before committing to a purchase.

Using AR, potential buyers can gain a realistic understanding of what a vehicle will look like, ensuring that they make an informed decision. This virtual experience extends the boundaries of traditional showrooms, making it possible for customers to explore Mahindra's offerings from anywhere in the world.

By combining AR with AI, Mahindra can further personalise the experience, recommending specific vehicle configurations based on customer preferences, budget, and even lifestyle choices.

In addition to enhancing the purchasing experience, Mahindra is also utilising VR to improve driver training. Through immersive VR-based training modules, drivers can experience challenging road scenarios and gain practical skills in a risk-free environment. This type of hands-on training ensures that drivers are better prepared for real-world driving conditions, improving both their safety and confidence on the road.

By integrating AR and VR across its customer engagement efforts, Mahindra is not only providing customers with innovative ways to interact with its products but also enhancing safety and learning experiences. This commitment to leveraging cutting-edge technologies is driving the future of automotive customer service, offering a more dynamic and personalised journey from discovery to ownership.

Transforming the Automotive Sector

Mahindra Ventures in IoT, AR, VR, and Tech

Beyond automotive innovation, Mahindra Group's various ventures in IoT, AR, and VR are transforming industries ranging from agriculture to real estate and renewable energy. In the agricultural sector, Mahindra Agri Solutions is using IoT to empower farmers with smarter farming practices. IoT-enabled smart irrigation systems monitor soil moisture levels, weather patterns, and crop health, allowing farmers to optimise their water usage. This not only conserves resources but also leads to higher crop yields and improved sustainability.

Mahindra's Krishi Mitra initiative, which combines AI and IoT, provides farmers with valuable insights into market trends, weather forecasts, and crop management. By using AI-powered data analytics, the platform helps farmers make informed decisions about when to plant, irrigate, and harvest, maximising productivity and minimising risks.

In the real estate sector, Mahindra Lifespaces is using AR and VR to enhance customer experiences when purchasing properties. Prospective buyers can take virtual tours of properties, visualising potential layouts, design options, and even furniture placements.

This immersive experience enables them to make more informed decisions without physically visiting the properties, saving time and effort. AI-powered platforms further enhance this experience by offering personalised property recommendations based on the buyer's preferences, budget, and location choices.

In renewable energy, Mahindra Susten is employing IoT and AI to optimise the performance of solar panels. IoT sensors track the energy output and environmental conditions of each panel, while AI algorithms analyse this data to identify inefficiencies and suggest corrective actions. This optimisation ensures that the solar panels operate at maximum efficiency, contributing to sustainability and reducing operational costs.

Across all of these sectors, Mahindra is demonstrating a commitment to using emerging technologies to drive innovation, sustainability, and operational efficiency. Whether it's through smart farming, connected vehicles, or immersive customer experiences, Mahindra is shaping the future of technology-driven industries.

Transforming the Automotive Sector

Expanding Horisons with AI and Emerging Tech

As Mahindra continues to expand its technological horizons, AI plays a critical role in driving innovation across multiple sectors. In retail, for example, Mahindra is leveraging AI to predict customer preferences and optimise inventory management. AI-powered chatbots and virtual assistants offer personalised shopping experiences, guiding customers through the purchasing process and answering questions in real-time. Additionally, AI algorithms are used to forecast demand trends, helping retailers avoid overstocking or understocking, which can impact profitability.

Mahindra's commitment to innovation also extends to collaborations with tech start-ups and academic institutions.

By partnering with emerging tech companies and researchers, Mahindra is exploring cutting-edge technologies such as blockchain, edge computing, and quantum computing. These collaborations enable the company to stay ahead of technological advancements and integrate the latest breakthroughs into its products and services.

By integrating AI, IoT, AR, VR, and other emerging technologies across its various ventures, Mahindra is setting new benchmarks for innovation and sustainability. The company's diversified approach not only enhances operational efficiency but also creates value for customers, employees, and society as a whole. As Mahindra continues to evolve in the age of digital transformation, its vision for a technologically empowered future remains at the forefront of its strategy, ensuring long-term growth and success across industries.

Hinduja Group's Multi-Sector AI Integration

Automotive and Financial Services

Mr. Mukesh Rathi
Global Chief Digital Officer, Hinduja Group

Mr. Mukesh Rathi, Global Chief Digital Officer, Hinduja Group, shared insights on AI's transformative applications across the Group's verticals. In the automotive sector, AI supports predictive maintenance and autonomous driving research, offering data-driven insights to preempt mechanical failures. Financial services leverage AI for advanced risk assessment, fraud detection, and delivering personalised customer solutions, elevating operational security and efficiency.

Healthcare Innovation

In healthcare, AI is pioneering advanced diagnostic tools and telemedicine platforms. By analysing medical data, AI systems support early disease detection and remote patient monitoring, empowering doctors to provide timely and effective care. This has proven especially valuable in under-resourced regions, where AI bridges the gap between patient needs and healthcare accessibility.

Revolutionising Agriculture

The Hinduja Group's agricultural initiatives exemplify AI's potential in traditional sectors. Connected tractors equipped with cloud and satellite data provide farmers with actionable insights on crop health, market prices, and precision farming techniques. AI models also analyse sugarcane content for optimal profitability, while autonomous tools determine ideal ploughing and sowing depths. This integration blends modern technology with age-old farming practices, driving sustainable growth.

AI in Real Estate and Renewable Energy

Hinduja Realty, a subsidiary of the Group, is leveraging AI to modernise property management and investment. AI-driven platforms analyse market trends to identify lucrative investment opportunities. These systems also provide predictive maintenance solutions for properties, enhancing operational efficiency and tenant satisfaction.

In renewable energy, Hinduja Renewables is pioneering AI-powered solutions to monitor and optimise solar and wind energy production. Advanced machine learning models analyse environmental data to predict energy output, allowing for proactive maintenance and better energy management.

AI in Logistics and Supply Chain Management

Hinduja Leyland Finance, the logistics arm of the Hinduja Group, uses AI to streamline supply chain operations. AI-driven platforms optimise route planning, reduce fuel consumption, and ensure timely deliveries. Machine learning models also forecast demand fluctuations, enabling better inventory management and reducing wastage.

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Heralding AI in the consulting sector

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Optimising Solar Energy and Manufacturing

Mr. Siddhartha Ghosh
Director of Consulting Services, CGI

Panelist Mr. Siddhartha Ghosh, Director of Consulting Services, CGI, elaborated on AI's applications in solar energy optimisation and telematics. AI-powered systems analyse energy patterns to enhance solar panel efficiency and reduce waste. In manufacturing, AI streamlines operations, ensures product quality, and drives cost savings, reinforcing its cross-industry relevance.

Expansion of AI Capabilities

In 2023, CGI committed to investing $1 billion over three years to expand its AI services, focusing on helping clients transition from AI experimentation to full-scale implementation. This expansion includes strengthening consulting services, developing proprietary AI delivery platforms, integrating AI into existing intellectual property, building a skilled AI workforce, and enhancing internal operations through AI technologies. By focusing on responsible AI deployment, CGI aims to deliver measurable business value while addressing ethical concerns and driving ROI for its clients.

Strategic Partnerships and Industry Collaboration

As part of its strategic growth, CGI has formed key partnerships with industry leaders such as Google Cloud and Altair to accelerate AI-driven innovation. CGI has expanded its collaboration with Google Cloud, aiming to enhance its PulseAI platform and develop industry-specific AI models for sectors like finance, healthcare, and public services.

This partnership includes creating AI sandboxes and offering global AI training through CGI Academia to foster continuous learning. Additionally, CGI's partnership with Altair, announced in December 2024, leverages data science tools such as Altair's RapidMiner platform to deliver AI solutions tailored to industries like finance, healthcare, and retail, helping businesses modernise their IT systems and enhance operational efficiencies.

Commitment to Responsible AI Practices

CGI aims to ensure the technology's trustworthy use. This dedication to ethical AI is also reflected in its active participation in global AI regulatory discussions, ensuring that its solutions meet both regulatory and societal expectations. Through these investments, partnerships, and ethical practices, CGI is positioning itself as a leader in AI technology, delivering transformative, responsible, and industry-specific AI solutions that drive sustainable business outcomes.

Heralding AI in the consulting sector

Industry specific solutions by CGI

CGI's focus on industry-specific AI solutions is central to its strategy of delivering tailored technologies that address the unique challenges of various sectors. Through strategic partnerships with companies like Altair, CGI enhances its AI offerings by integrating advanced tools like Altair's RapidMiner platform, which enables clients to gain insights from complex data and optimise business processes. These collaborations allow CGI to provide AI-driven solutions designed for specific industries, including finance, healthcare, retail, and hospitality. By leveraging AI to modernise IT systems, streamline operations, and drive operational efficiencies, CGI empowers organisations to achieve measurable outcomes, ultimately positioning itself as a key player in transforming industry landscapes through innovative AI technologies.

Overcoming Challenges and Unlocking Potential

While the promise of AI is immense, challenges such as fragmented data systems and low stakeholder alignment hinder its widespread adoption. The panel emphasised the need for robust data frameworks and cultural alignment to address these obstacles. By fostering collaboration and promoting AI literacy, organisations can accelerate the adoption of AI-driven innovation.

Emerging AI Trends Across Industries

AI in Healthcare

The global healthcare sector is increasingly adopting AI to improve patient outcomes and operational efficiency. Predictive analytics powered by AI is used to identify high-risk patients, enabling early interventions and reducing hospital readmissions. AI-driven chatbots are assisting in primary healthcare by providing instant consultations and directing patients to appropriate medical services.

In drug development, AI models analyse vast datasets to identify potential compounds, significantly shortening the time required for research and clinical trials. This accelerates the development of treatments for critical diseases, including cancer and rare genetic disorders.

AI in Retail and E-commerce

Retail and e-commerce businesses are using AI to personalise shopping experiences and optimise supply chains. Recommendation engines analyse consumer behaviour to suggest products tailored to individual preferences, enhancing customer satisfaction. AI also powers dynamic pricing models, allowing retailers to adjust prices in real-time based on demand, competition, and other market factors.

Warehouse management has benefited from AI-driven robotics and automation, which streamline inventory handling and order fulfilment. AI-enabled demand forecasting helps businesses manage stock levels effectively, reducing waste and ensuring timely product availability.

AI in Education

AI's integration into education is revolutionising learning methodologies. Adaptive learning platforms use AI algorithms to assess student performance and customise lesson plans, ensuring personalised education for diverse learning styles. Virtual tutors and AI-driven assessment tools support students and educators by automating repetitive tasks and providing real-time feedback.

Institutions are also utilising AI for administrative tasks such as enrolment management, scheduling, and resource allocation. These applications allow educators to focus more on teaching and mentoring while improving operational efficiency.

AI in Cybersecurity

As cyber threats become increasingly sophisticated, AI is playing a crucial role in strengthening defences. Machine learning algorithms detect anomalies and potential breaches by analysing patterns in network traffic. AI-driven security systems offer real-time threat intelligence, enabling organisations to respond swiftly to attacks.

In addition to preventing breaches, AI is used for post-incident analysis, identifying vulnerabilities, and suggesting measures to enhance security. By continuously learning from new threats, AI systems evolve to provide robust protection against emerging risks.

Intelligent Automation

Mr. Mahesh Parab
Partner,
PwC India

Mr. Mahesh Parab, Partner at PwC India, highlighted the transformative potential of intelligent automation (IA) in streamlining business processes and enhancing operational efficiencies. He emphasised that IA, which combines artificial intelligence (AI), robotic process automation (RPA), and machine learning (ML), is not just a trend but a necessity for businesses aiming to stay competitive. With IA, organizations can automate complex tasks, reduce human errors, and achieve unprecedented levels of productivity. The current landscape of automation is characterized by the integration of AI and ML algorithms, which allow systems to learn and adapt over time, making them more efficient and effective.

One of the key benefits of IA is its ability to process vast amounts of data quickly and accurately. This capability is particularly valuable in industries such as finance, healthcare, and manufacturing, where data-driven decisions are critical. For instance, in the financial sector, IA can be used to detect fraudulent transactions, analyse market trends, and optimize investment strategies. In healthcare, it can assist in diagnosing diseases, managing patient records, and improving treatment outcomes. In manufacturing, IA can enhance supply chain management, optimise production processes, and ensure quality control.

Looking ahead, the landscape of automation is expected to evolve with increased adoption of AI and ML, integration of 5G technology, and a focus on 'human-machine collaboration.' These advancements promise to unlock new opportunities for innovation, cost reduction, and improved customer experiences. With 5G technology, the speed and reliability of data transmission will be significantly enhanced, enabling real-time automation and remote operations. This will open up new possibilities for industries such as logistics, where autonomous vehicles and drones can be used for efficient delivery and transportation.

Human-machine collaboration is another important aspect of the future landscape of automation. Rather than replacing human workers, IA is expected to complement their skills and capabilities, allowing them to focus on more strategic and creative tasks. For example, in the customer service industry, chatbots powered by IA can handle routine inquiries, while human agents can address more complex issues that require empathy and critical thinking. This collaboration can lead to higher job satisfaction, as employees are relieved from repetitive tasks and can contribute more meaningfully to their organisations.

Intelligent Automation

Moreover, the future of automation will likely see the rise of 'hyperautomation,' a concept that involves the use of advanced technologies to automate as many business processes as possible. 'Hyperautomation' goes beyond traditional automation by integrating AI, RPA (Robotic Process Automation), ML, and other tools to create a seamless and interconnected system. This approach can lead to end-to-end automation, where processes are optimised from start to finish, resulting in greater efficiency and productivity.

Ethical considerations will also play a crucial role in the future of intelligent automation. As IA systems become more advanced, it is important to ensure that they are designed and implemented in a way that is fair, transparent, and accountable, Mr Parab said. Organisations will need to address concerns related to data privacy, security, and bias to build trust with their stakeholders. Additionally, there will be a growing emphasis on upskilling and reskilling the workforce to adapt to the changing demands of the job market. By investing in education and training, businesses can ensure that their employees are equipped with the knowledge and skills needed to thrive in an automated world.

The current and future landscape of intelligent automation is marked by rapid technological advancements and a focus on human-machine collaboration. Mr. Parab underscored the importance of IA in driving innovation, efficiency, and competitiveness. As industries continue to embrace these technologies, they can look forward to new opportunities for growth and improvement. However, it is essential to address ethical considerations and invest in workforce development to ensure a successful and inclusive transition to an automated future.

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Conclusion: A Future of Endless Possibilities

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The event concluded with a resounding call for businesses to embrace AI as a tool for shaping the future. The insights shared by industry leaders demonstrated AI's ability to revolutionise sectors, solve pressing challenges, and unlock untapped potential. As industries evolve, AI will undoubtedly remain a cornerstone of innovation and progress, paving the way for a future defined by technological excellence and collaboration.

By highlighting emerging trends and practical applications across sectors, this panel discussion underscored the transformative power of AI. As organisations continue to explore and implement AI-driven solutions, they will not only enhance efficiency but also create new opportunities for sustainable growth and societal advancement.

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Expanding AI's Influence Globally

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AI in Environmental Conservation

AI is being deployed to tackle pressing environmental challenges. Machine learning models process satellite imagery to monitor deforestation, track wildlife populations, and predict natural disasters. Predictive analytics helps policymakers design strategies to combat climate change by assessing the long-term impact of various initiatives.

AI-driven waste management systems improve recycling processes by identifying and sorting materials accurately. These innovations reduce landfill contributions and promote a circular economy, showcasing AI's potential to foster sustainability.

AI in Transportation and Logistics

AI is streamlining logistics and transportation through route optimisation and autonomous vehicle development. Algorithms analyse traffic patterns, weather conditions, and road networks to suggest the most efficient delivery routes, saving time and fuel costs. AI-powered drones and robots enhance last-mile delivery capabilities, making logistics faster and more reliable.

Autonomous vehicles, guided by AI, are reducing human error on roads while enhancing safety and fuel efficiency. As the technology matures, it promises to transform urban mobility and reduce carbon emissions, aligning with global sustainability goals.

AI and Workforce Transformation

AI's integration into workplaces is transforming job roles and creating demand for new skill sets. Automation of routine tasks allows employees to focus on strategic initiatives, enhancing productivity. Upskilling and reskilling programs driven by AI identify learning needs and tailor training programs, preparing the workforce for future challenges.

Collaborative robots, or cobots, are working alongside humans in industries ranging from manufacturing to healthcare, demonstrating how AI can complement human effort rather than replace it. This collaboration drives innovation and enhances operational efficiency.

The Path Forward

The transformative potential of AI is boundless, as evidenced by its diverse applications across industries. By addressing challenges and fostering a culture of innovation, organisations can harness AI's full potential to shape a sustainable and equitable future. As AI continues to evolve, its integration into everyday life will not only redefine industries but also empower societies to thrive in a rapidly changing world.

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Artificial Intelligence & Data Science

Machine Learning - I & II **Dr. Shailesh Kumar** Chief Data Scientist, Center of Excellence in AI/ML, Reliance Jio, India	**Natural Language Processing** **Dr. Larry Birnbaum** Professor, Computer Science, Northwestern University, USA
Data Visualisation **Dr. Vishal Lala** Professor of Marketing, Lubin School of Business, PACE University, USA	**Databases & Data Warehouses ML Engineering** **Mr. Anmol Karnwal** Applied AI Scientist, Microsoft, India
Bigdata Engineering and Advanced Topics in Big Data Engineering **Mr. Manaranjan Pradhan** Founder & Director, AwesomeStats Consulting Pvt Ltd, India	**Recommendation Systems** **Dr. Ashish Tendulkar** AI/ML Leader, Google, India
AI Policy **Dr. Tehila Shwarts Altshuler** Head of the Democracy in the Information Age Program, Israel Democracy Institute, Israel	**Deep Learning and Computer Vision** **Dr. Sudipta Roy** Associate Professor, Artificial Intelligence & Data Science, Jio Institute, India
Time Series Analysis, Generative AI and LLMs **Mr. Anant Agarwal** Data Science Manager, Nissan Motor Corporation, India	**Optimization** **Ms. Goda Ramkumar** Vice President, Data Science, Swiggy, India
Probability & Statistics **Dr. Varun Aggarwala** Assistant Professor, Jio Institute	**Linear Algebra** **Dr. Vishnuprasad Nagadevara** Former Professor and Dean, Indian Institute of Management Bangalore, India

Management (Specialisation in Marketing)

Principles of Leadership and Persuastion **Prof. Gokul Kamath** Co-Founder, GEMS B-School, India	***Consumer Insights*** **Dr. Partha Krishnamurthy** Professor of Marketing, University of Houston, USA
Digital Media Metrics & Analytics **Dr. Seshadri Tirunillai** Associate Professor of Marketing, University of Houston, USA	***Brand Strategy & Customer Engagement*** **Mr. Siddhart Deshmukh** Teaching Fellow, University of Southampton, UK
Digital & Social Media Marketing **Dr. Denish Shah** Barbara & Elmer Sunday Professor and Associate Professor of Marketing Founding Director of the Social Media Intelligence Lab | Executive Director of the Marketing RoundTable, Georgia State University, USA	***Operations Management Machine Learning for Marketers*** **Dr. Vishnuprasad Nagadevara** Former Professor and Dean, Indian Institute of Management Bangalore, India
Structured Business Communication **Subha Mins** Graduate Programmes Manager and Assistant Professor, Woxsen University, India	***Sales & Distribution Management*** **Mudit Mathur** Strategic Advisor, Curate Data LLP, USA
Financial Management **Mr. George Heber Joseph** Head of Special Projects (Strategy & Planning), Jio Financial Services, India	***Media Policy Seminar*** **Dr. Tehila Shwarts Altshuler** Head of the Democracy in the Information Age Program, Israel Democracy Institute, Israel
AI & Marketing **Prof. Jonathan Briggs** Adjunct Associate Professor, National University of Singapore, Singapore	***Legal Aspects of Business*** **Mr. Dominic D'sousa** Former Head Legal, Balaji Group, Mumbai, India
Marketing Research Methods (Quantitative) **Dr. Vishnu Prasad** Assistant Professor of Marketing, Jio Institute	***Organisation Behavior*** **Ms. Riddhi Parikh Mehta** Visiting Professor, Transformational Coach, India Business Head – Leaderonomics, Mumbai, India

Strategic Marketing Communications **Mr. Alan D'Sousa** Former Executive Director, Mudra Communications Ltd │Founder Member, Mudra Institute of Communication, Ahmedabad (MICA), India	***Economics for Managers*** **Dr. Rasananda Panda** Professor of Economics and Management, MICA, Ahmedabad
Product & Brand Management (PBM) **Mr. Jishnu Changkakoti** Adjunct Professor, IMT Ghasiabad, Delhi, India	***Product Management Tech (PMT)*** **Ms. Taruna Manchanda** Principal Product Manager, Microsoft, India

Sports Management

Sports Sponsorship & Advertising **Mr. Jitendra Joshi** Co-Founder & Director, CORCOM Media Ventures, India	***Promotion & Sales in Sports Business*** **Ms. Deepa Mallesh** Independent Consultant, Sports Investments, India
Sports Event Development & Operations **Mr. Ashish Shah** Founder, Dynamic Sports Pvt. Ltd. , India	***Sports Consulting*** **Mr. Pranshu Jain** Executive Director, Sports Advisory, PwC India
Data Analytics in Sport Business **Dr. Bill Gerrard** Professor of Business Management, Leeds University Business School, United Kingdom	***Sport Marketing*** **Dr. Keshav Gupta** Assistant Professor, Department of Sport and Entertainment Management, University of South Carolina, USA
Entrepreneurship in Sport Management **Prof. Chittaranjan Bhattacharjee** Director, Executive Education, SVKM's Narsee Monjee Institute of Management Studies (NMIMS), India	***Sport Finance*** **Dr. Ashish Karnavat** Founder, Novexa Careers, India
Digital Marketing in Sport **Dr. Hans Westerbeek** Professor of International Sport Business, Victoria University, Real Madrid Graduate School, Vrije Universiteit Brussel, Central University for Economics and Finance (CUFE, Beijing)	***Business of Sport Leagues*** **Mr. Amarnath Sindol** Project Management, Mumbai Falcons Racing Limited, India
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H.E. Cheong Ming Foong Consul General, Consulate General of Singapore, Mumbai

His Excellency Paul Murphy, Consul General of Australia, Mumbai

Mr. Lim Tau Wee, Assistant Director, Singapore Management University

Ms. Lisa Powell, Director, Australian Trade and Investment Commission

Mr. Matthew Lee, Director, Singapore Management University

Mr. Erik af Hällström, H.E. Consul General of Finland to Mumbai

Prof. Marvin Krislov, President, Pace University

Mr. Peter Sprenger, Chairman, Techonomy & President Volleyball Federation Netherlands

Prof. Robbie Goh, Provost – Singapore University of Social Sciences (SUSS)

Dr. Jens Frederiksen, President, University of New Haven, USA

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