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NMIMS EduGenAI

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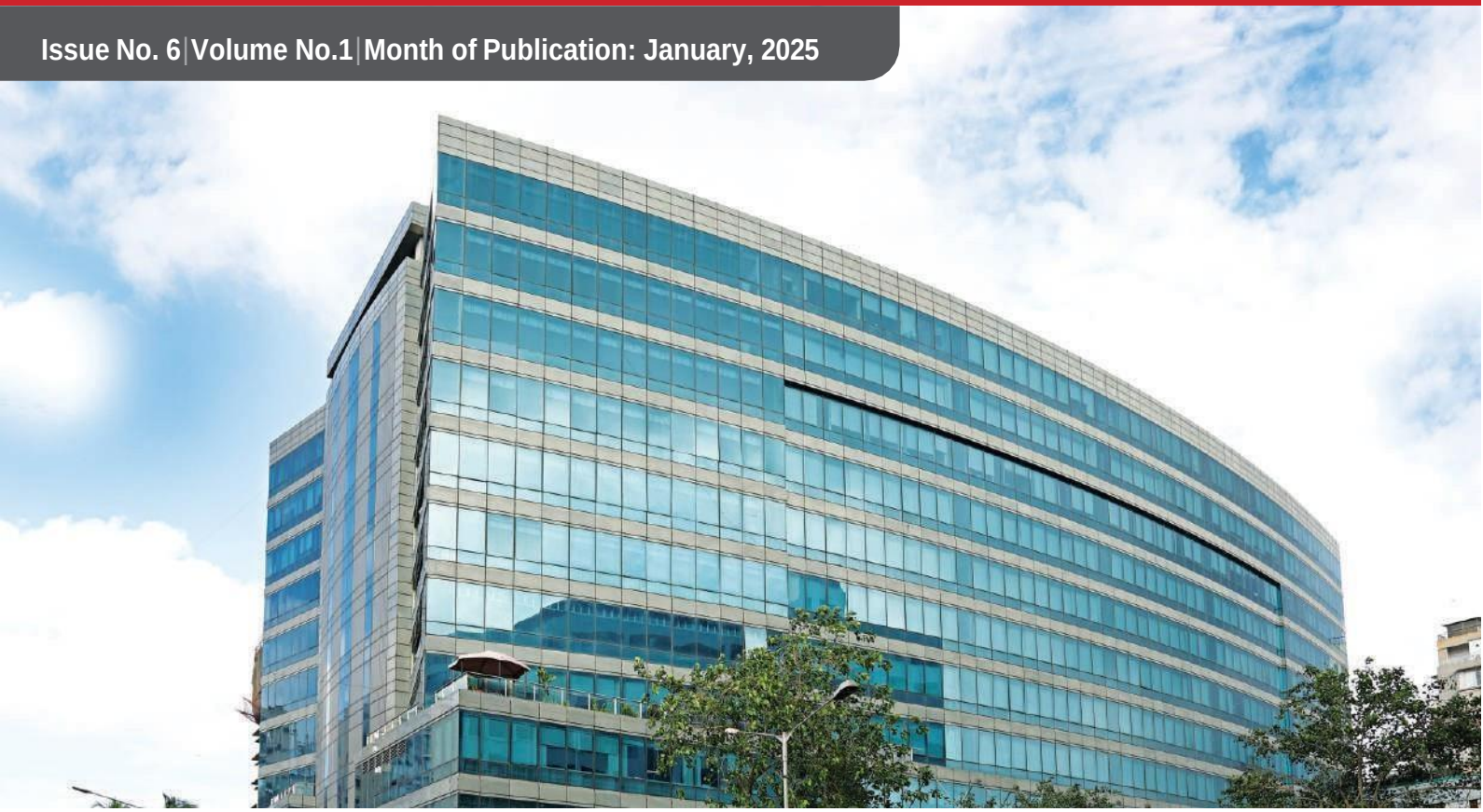

NMIMS Vision

To be a globally admired University by 2030

NMIMS Mission

Emerge as a Centre of Excellence, best in class in India and Asia, and yearning to be the best in the world by 2030

GenAI Guidelines and Policy

GenAI Faculty Development and Workshops

GenAI-Enhancing Teaching-Learning Process

GenAI- Progress Monitoring

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Preface

Warm greetings!

The sixth issue of the **EduGenAI Newsletter** features an insightful **article on 'Agentic AI' applications,** the latest **hot topic** in the **tech world.**

In the **GenAI Tools Use-Cases section,** use case on **making presentations and beautiful graphics** using **Napkin AI is presented**.

The issue also covers the latest developments in the field of Generative AI across the university and world which primarily includes a brief reports on the **Generative AI FDPs conducted** during the month of **December and a section on Student Spotlight that provides a** summary of article published in **medium.**

Please share your feedback and suggestions. Do share the newsletter with your colleagues.

Happy reading!

In this edition

Practical Examples of Agentic AI

In continuation to the discussion on Agentic AI from the previous issue, this issue presents the practical examples where agentic AI have been used. **Agentic AI as opposed to Generative AI is** characterized by its ability to **autonomously pursue goals and manage complex workflows** with minimal human oversight. It is **transforming various industries**. In fact, Sam Altman has recently quoted that, "**AI agents will enter workforce in 2025".** *To throw more light on this, here are* some **practical examples** of how agentic AI is being applied or can be applied across different sectors:

Customer Support

Agentic AI powers modern chatbots, enabling them to go beyond scripted interactions. These AI-driven chat agents can engage in nuanced conversations, identify user intent, and take action autonomously. For instance:

- **Bank of America:** Their AI agent, **Erica,** handles customer inquiries about account balances, transaction history, and even provides financial advice.
- **Amazon:** AI-driven systems track a customer's journey, personalize recommendations, and assist with returns seamlessly.

Healthcare

In healthcare, agentic AI improves workflows by managing administrative tasks. Examples include:

- **Zocdoc:** Their AI-powered scheduling assistant automatically books appointments based on patient availability, clinician schedules, and clinic resources.
- **Medisafe:** AI agents track medication adherence, send automated reminders, and notify doctors of irregularities, ensuring better patient care.

Logistics and Supply Chain Management

Agentic AI is driving smarter inventory management and autonomous supply chain operations. Some use cases are:

- **Walmart:** AI agents predict stock levels, order replenishments, and prevent out-of-stock scenarios by monitoring market trends and past demand patterns.
- **UPS:** Self-learning systems allocate delivery routes based on weather, traffic, and fuel efficiency.

Finance

In the finance sector, agentic AI use cases are as follows:

- **PayPal:** AI agents monitor transactions in real-time, identifying and flagging suspicious activities.
- **Goldman Sachs:** Autonomous trading systems analyze market data, execute trades, and optimize investment strategies without human intervention.

Education

Agentic AI enhances personalized learning experiences. Few of the examples are:

- **Duolingo:** AI tutors adapt to individual student needs, providing customized learning materials and feedback.
- **Coursera:** AI agents handle scheduling, grading, and other administrative duties, allowing educators to focus more on teaching.

Marketing

In marketing, agentic AI is leveraging real time data received from customers. For instance:

- **HubSpot**: AI agents design, launch, and optimize marketing campaigns based on real-time data.
- **Salesforce**: AI systems track and analyze customer interactions, providing insights to improve engagement and conversion rates.

These examples illustrate the **transformative potential of agentic AI across various industries.** By **autonomously managing tasks and making decisions**, agentic AI not only enhances efficiency but also allows human workers to focus on more strategic and creative aspects of their roles.

Impact on the Job Market

The rise of **Agentic AI is poised to significantly impact the job** market. On one hand, it can lead to job displacement as AI agents take over routine and repetitive tasks, potentially **reducing the need for human workers in roles such as customer service, data entry, and administrative** support. However, it also creates **opportunities for new job roles that focus on overseeing AI systems, training AI models, and handling more complex, strategic tasks** that require human judgment and creativity.

Impact on Educators

For educators, **Agentic AI offers both challenges and opportunities**. AI agents can automate administrative tasks, provide personalized learning experiences, and offer real-time feedback to students, thereby enhancing the teaching and learning process. However, educators must **adapt to these changes by developing new skills** to effectively integrate AI tools into their teaching methods and ensure ethical considerations are addressed.

In summary, **while Agentic AI and Generative AI differ in their core functionalities**, both have the **potential to transform industries, reshape job markets, and revolutionize education**. Embracing these technologies thoughtfully and ethically will be crucial in maximizing their benefits while mitigating potential drawbacks.

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News and Events

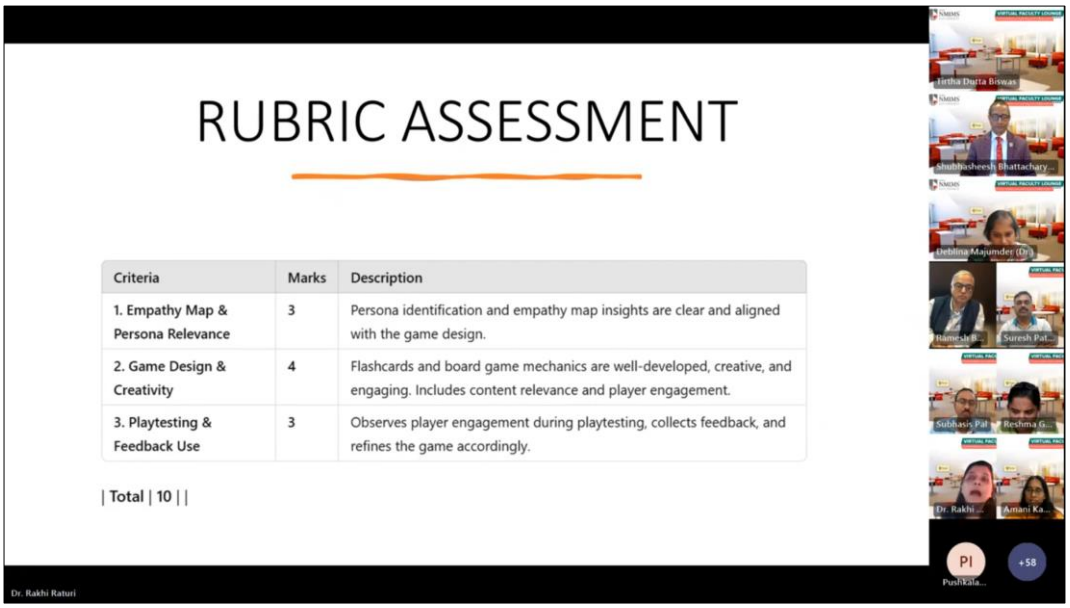
NMIMS Faculty Lounge-November/December

Topic: ***"Under OCAC: The Art of Planning Academic Events; Aiming for Desired and Documented Outcomes"***

Day, Date and Time: Thursday, November 28, 2024 @ 04:00 P.M.

In this session primarily dedicated to **Out-of-class academic collaboration**, **Dr. Raturi** discussed her **OCAC assessments for courses** such as retail, brand management, and consumer behavior. One of the key **highlights of the session was her demonstration of how to create descriptive rubrics** using generative **AI tools like ChatGPT**. She emphasized the advantages of well-crafted rubrics, including:

1. Helping students clearly understand assignment deliverables.
2. Providing transparency in justifying the marks awarded.



Dr. Raturi also demonstrated how prompts **can guide the creation of rubrics.** For instance, a rubric for a branding assignment could include:

- **Learning Objectives:** Understanding branding concepts, analyzing real-world strategies, and developing actionable recommendations.
- **Assignment Type:** Individual or group project.
- **Grading Components:** Research quality, depth of analysis, creativity, and presentation (Total: 10 marks).

A sample rubric was also created using ChatGPT as a part of **the demonstration**.

The session underscored the significance of aligning academic planning, assessment, and outcomes while leveraging AI tools to enhance educational effectiveness.

FDP at Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management (SPPSPTM), Mumbai

Topic: ***Integrating AI into Pharmacy: Innovations, Applications, and Future Directions***

The **Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management (SPPSPTM), in collaboration with the Mukesh Patel School of Technology Management and Engineering (MPSTME) and the Centre for Executive Education (**CEE), hosted a five-day Faculty Development Program (FDP) from **December 3–7, 2024**, on **"Integrating AI into Pharmacy: Innovations, Applications, and Future Directions."** A total of 50 participants attended the event. The event featured **diverse sessions by experts from academia and industry**, covering the transformative role of **AI in pharmacy, healthcare, and education**.

Topics included AI in drug discovery, predictive modeling, machine learning applications, and generative AI tools, with practical demonstrations such as hands-on training with Pharmacodia and Cyber AIDD tools. Key speakers included **Dr. Srivaramangai, Mr. Mridul Sharma, and Dr. Vaishali Kulkarni**, among others. The program concluded with a vote of thanks, distribution of participation certificates, and acknowledgment of the organizers, reflecting its success in equipping attendees with cutting-edge AI insights and applications in pharmacy.

Hybrid FDP Organized by School of Technology Management & Engineering (STME) ,NMIMS Indore

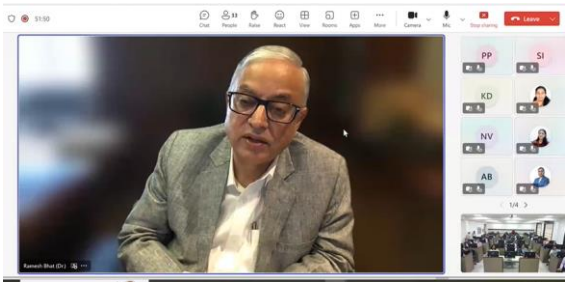
Topic: ***Generative AI: Transforming Innovation in Technology and Education***

- The School of Technology Management & Engineering (STME) at NMIMS Indore Campus successfully organised a Week National Faculty Development Program (FDP) on "Generative AI: Transforming Innovation in Technology and Education" held **from December 9-13, 2024 in hybrid Mode.** The FDP was coordinated by Dr. Divya Gautam, Dr. Nidhi Asthana, Dr. Gaurav Paliwal, and Dr. Anita Chalka. The speakers were **from Industry and reputed academic institutions**. Few of the prominent names were Dr. Anshuman Jaswal, Dr. Vijay Bhaskar, Dr. Piyush Shukla, Dr. Yadunath Pathak, Mr. Rankush Vishwakarma, Dr. K M Arya, Dr. Rupesh Kumar Dewang and Dr. Vikas Khare.

  The program attracted an **overwhelming registration of 520+ participants from across India**, demonstrating the growing interest and significance of Generative AI in academia and industry.. Throughout the program, sessions **explored diverse topics such as Generative AI's role in education, human-computer interaction, industry applications, Ethical Considerations** and Hands-on Sessions on AI Tools.

Train the Trainer FDP Organized by Mukesh Patel School of Technology Management & Engineering (MPSTME) ,NMIMS Shirpur

Topic: ***Empowering Educators with Generative AI: Transforming Teaching, Learning, and Research***



SVKM's NMIMS, Mukesh Patel School of Technology Management and Engineering (MPSTME), Shirpur Campus, hosted a **transformative Train-the-Trainer Faculty Development Programme (FDP) titled "Empowering Educators with Generative AI: Transforming Teaching, Learning, and Research."**

The event, held from **December 16-20, 2024**, saw enthusiastic participation from more than 50 educators across various NMIMS campuses, including **Navi Mumbai, Indore, Hyderabad, Bengaluru, Chandigarh**, and multiple schools in Mumbai and Shirpur. The Speakers provided insights on the fundamentals of **Generative AI, Ethics and Responsible use with a focus on NMIMS GenAI Guidelines and Policy, Prompt Engineering, Hands-on sessions on various Generative AI Tools for research and teaching**. Few of the speakers were **Dr. Anshuman Jaswal, Dr. Vaishali Kulkarni, Dr. Vikas Khare, Dr. Radhika Chapaneri, Dr. Ami Munshi, Prof. Rajesh Verma, Dr. Praveen Kumar Loharkar, Prof. Yogendra Jain, Mr. Rishabh Chopra and Mr. Kratik Khiani** from Industry.

The valedictory function was graced by **Dr. Ramesh Bhat, Hon. Vice Chancellor of NMIMS**, who emphasized on the **vision behind conducting such FDPs to empower educators**. He highlighted the importance of integrating Generative AI into teaching and research to stay ahead in the rapidly evolving educational sector. The Program was coordinated by Dr. Praveen Kumar Loharkar, Assistant Professor at MPSTME, Shirpur Campus.

Past Event at NMIMS, Hyderabad-Guest Lecture by Invesco's Global Business Services Team

Topic: ***Exploring AI's Transformative Impact on Finance***

Invesco's guest lecture, held on **October 24, 2024**, for final-**year BBA-Finance and B.Com students**, offered a thought-provoking discussion on **"Artificial Intelligence and Its Impact on Finance"** The talk highlighted how generative AI tools are shaping modern business strategies, emphasizing three key themes: **revenue generation, customer focus, and operational productivity.**

Attended by over 60 students, the session was led by three distinguished representatives from **Invesco's Global Business Services (GBS)** team based in Hyderabad-namely **Mr. Ravi Kant Lakhani, Associate Director GBS Team**; **Mr. Bhanu Prakash, Associate Director; Mr. Pratyush Mehta, Manager.**The event was organized by the **School of Commerce, NMIMS Hyderabad.**

The talk highlighted that In the arena of Revenue Generation, AI-powered predictive analytics tools like ChatGPT or Gemini can identify emerging investment patterns, enabling the development of tailored financial products to meet client needs. With respect to customer focus, Tools like Jasper or DALL-E can be used to create customized financial reports or visual content that resonate with clients, thereby fostering stronger relationships. For instance, AI can generate personalized wealth management strategies for individual clients based on their financial goals. With respect to **o**perational productivity**,** Generative AI optimizes workflows by automating routine tasks. Tools like GitHub Copilot can assist financial analysts in coding complex financial models more efficiently. Similarly, AI-based document generation systems can streamline the preparation of compliance reports, saving significant time and effort.

Faculty Recommended Research Article

Dr. Toral Shah, Assistant Professor, STME, NMIMS, Navi Mumbai shared a paper "***From promise to practice: towards the realisation of AI-informed mental health care***" examines how artificial intelligence (AI) can enhance mental health services. It discusses the potential of AI to address issues like delayed or inaccurate diagnoses and inefficient treatments in mental health care.

The authors explore various AI-based precision medicine tools and their applications in clinical settings. The paper emphasizes the importance of combining human intelligence with AI to improve patient outcomes. It provides recommendations on addressing challenges from an interdisciplinary perspective. Overall, the paper highlights the promise of AI in transforming mental health care and the steps needed to make this a reality. **Link for the paper**:https://www.sciencedirect.com/science/article/pii/S2589750022001534

Student Spotlight

Topic: Comprehensive guide on setting up a Windows system for running generative AI models using an NVIDIA GeForce RTX 3050 GPU.

Rishi Sangare, a 4th-year student of MBATECH (CE), has provided a comprehensive guide on setting up a Windows system for **running generative AI models using an NVIDIA GeForce RTX** 3050 GPU. He has explained the step-by-step process, starting with updating NVIDIA drivers, installing **CUDA Toolkit 12.1**, and configuring cuDNN. The guide also includes setting up a Python environment, installing PyTorch, and running a GPT-2 model from **Hugging Face to utilize the GPU effectively**. Through detailed explanations and visuals, Rishi has made it easy for beginners to follow and replicate the process to unlock the power of their GPUs for AI workloads.

Article link - https://medium.com/@sangarerishi/setting-up-your-windows-system-for-generative-ai-a-beginners-guide-794199a0503b.

GenAI Tools Use-Cases

Creating a Presentation with Slidesgo's AI Presentations:

A Step-by-Step Guide

🔐Step 1: Login or Sign Up

- Go to Free AI Presentation Maker | Slidesgo
- Click on "Login" or "Sign Up" in the top right corner
- Enter your email address and password to login, or create a new account by filling out the registration form

💡Step 2: Define Your Topic

- Think of the subject you want to present
- Type it out and let the AI know the topic

🎨Step 3: Choose Your Style and Tone

- Select a design style: doodle, simple, abstract, geometric, or elegant
- Choose a tone: fun, creative, casual, professional, or formal
- Mix and match to create a unique presentation

🖌️Step 4: Customize Your Slides

- Review the generated slides
- Make desired changes using the online editor
- Adjust colors, text boxes, and more to fit your vision

📥Step 5: Download and Share

- Export the presentation in .pdf format
- Download it for free
- Generate a shareable link to show others

Creating Visuals with Napkin AI

A Step-by-Step Guide

📊Step 1: Account Creation

- Visit the Napkin AI website: Napkin AI - The visual AI for business storytelling
- Sign Up: Use your Google account or create an account with your email and password

🛋️Step 2: Onboarding Tutorial

- Start the Tutorial: Click the "Create my first Napkin" button
- Input Content: Paste existing text or use generative AI to create content
- Generate Visuals: Click the blue "Generate Visual" button
- Select a Visual: Choose your favorite visual and select a style

🎨Step 3: Visual Generation

- Generate from Text: Paste text into your document and click the "Generate Visual" button
- Generate from Selection: Select text and click the button to generate a visual

📥Step 4: Exporting Visuals

- Export Options: Choose from various formats after creating a document
- Export as PDF: Click the 'Share' button and select 'Download PDF'
- Export as PNG or SVG: Export visuals in PNG or SVG formats for use in other software

Latest Updates and Trends

- **Alibaba** has introduced a **new AI model** named **QwQ-32B-Preview,** developed by their **Qwen team.** This model features **32.5 billion parameters** and can process prompts up to **32,000 words long.** It has **outperformed OpenAI's o1-preview and o1-mini** models on several benchmarks**. Read more at: Alibaba releases an 'open' challenger to OpenAI's o1 reasoning model | TechCrunch.**
- **Generative AI and Education:** This article explores the ethical implications of generative AI in education, focusing on how it can enhance student autonomy**. Read more at: Generative Artificial Intelligence and Education: A Brief Ethical Reflection on Autonomy | EDUCAUSE Review.**
- **AI Adoption Study:** A recent study highlights how ChatGPT continues to lead the market for generative AI tools, with competitors like **Microsoft Copilot and Google Gemini** closing the gap**. Read more at: AI Adoption Study: ChatGPT Is Holding Its Lead Against Microsoft Copilot and Google Gemini - WinBuzzer.**
- **Gen Z and AI Data Usage: A survey by EY reveals** that **47% of Gen Z believe** AI developers **need permission to use their data**, indicating a gap between their use of generative AI and their understanding of it. **Read more at: 47% of Gen Z think AI developers need permission to use their data | CFO.com.**

Reference Links

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Top 20 Agentic AI Use Cases in the Real World
9 Agentic AI Examples: Real-World Use Cases and Applications

Stay tuned for more updates on Generative AI at NMIMS University!

With warm regards,
EduGenAI Newsletter Team

Kindly send your **feedback and contributions** on **GenAI use-cases to your respective school or campus representatives in the newsletter team or genai.newsletter@nmims.edu before the 25th of every month!**