SVKM's NMIMS
NMIMS EduGenAI

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!

We are excited to present the **third issue of EduGenAI Newsletter**. In this issue, we **continue** our **exploration of prompt engineering**, delving **deeper into the field with a focus on frameworks** that can enhance our ability to **craft effective prompts**. We **discover how frameworks such as PARTS**, **RTF, CREATE** and others can streamline the prompt engineering process and help us **achieve exceptional results**. This edition also **features in-depth coverage of the latest updates** related to the **GenAI** initiative at the university level.

Additionally, this issue **provides an overview of global trends and developments in Generative AI.** As always, we also aim to equip you with the knowledge and tools needed to stay ahead in this rapidly evolving field through the section on GenAI use-cases.

We welcome your feedback and suggestions as we strive to deliver content that meets your needs and exceeds your expectations.

In this edition

- **Understanding Prompt Engineering Frameworks**
- **News and Events: September 2024**
- **GenAI Tools Use-Cases**
- **Latest Updates and Trends**

Understanding Prompt Engineering Frameworks

Prompt engineering is a crucial skill for effectively interacting with **large language models** such as **ChatGPT**. By using structured frameworks, one can craft prompts that yield precise and useful responses. Following are some of the most popular frameworks:

PARTS Framework: A Breakdown

The PARTS framework is a useful tool for structuring prompts, ensuring they are clear, concise, and effective. It stands for:

1. P: Persona

- **Definition:** The role or identity the LLM should adopt to generate a response.
- **Example:** "Imagine you are a seasoned marketing executive."

2. A: Aim

- **Definition:** The specific goal or objective of the prompt.
- **Example:** "Develop a social media marketing campaign for a new product launch."

3. R: Recipients

- **Definition:** The intended audience for the LLM's response.
- **Example:** "Target a demographic of young, tech-savvy consumers."

4. T: Theme

- **Definition:** The topic or subject matter of the prompt.
- **Example:** "Sustainability and environmental responsibility."

5. S: Structure

- **Definition:** The desired format or organization of the response.
- **Example:** "Create a detailed marketing plan with sections for target audience, messaging, and budget."

Example Prompt:

Purpose: Developing a crisis management plan for a potential product recall.

- **Persona:** A seasoned crisis communication expert.
- **Aim:** Create a comprehensive plan to mitigate negative impact and restore public trust.
- **Recipients:** Internal team members, external stakeholders (e.g., media, customers), and regulatory agencies.
- **Theme:** Crisis communication, risk management, and reputation repair.
- **Structure:** A step-by-step plan outlining key actions, communication strategies, and potential scenarios.

RTF Framework: A Breakdown

The RTF framework is a simple yet effective approach to prompt engineering. It focuses on the essential components of a well-structured prompt:

1. R: Role

- **Definition:** The desired role or persona the LLM should adopt to generate a response.
- **Example:** "Imagine you are a seasoned software engineer."

2. T: Task

- **Definition:** The specific task or question to be addressed.
- **Example:** "Optimize the code for better performance."

3. F: Format

- **Definition:** The desired format or structure of the response.
- **Example:** "Provide a detailed code analysis report."

Example Prompt:

Purpose: Developing a course outline on a specific topic.

- **Role:** A knowledgeable and enthusiastic engineering professor.
- **Task:** Explain the concept of [engineering concept] in a clear and engaging manner, using real-world examples and analogies.
- **Format:** Create a lecture outline that includes visual aids, such as diagrams or charts, to enhance understanding.

CREATE Framework: A Breakdown

The CREATE framework is a structured approach to prompt engineering that ensures clarity, specificity, and relevance. Each letter in CREATE represents a key component of the prompt:

1. **C: Context**
   - **Definition:** The background information or setting relevant to the task.
   - **Example:** "A software developer is working on a new feature."
2. **R: Role**
   - **Definition:** The desired role or persona the LLM should adopt to generate a response.
   - **Example:** "Imagine you are a seasoned product manager."
3. **E: Example**
   - **Definition:** An example or instance to illustrate the desired output.
   - **Example:** "Provide a mock-up of the user interface."
4. **A: Audience**
   - **Definition:** The target audience or who the response should be directed towards.
   - **Example:** "End-users of the software."
5. **T: Task**
   - **Definition: The specific task or question to be addressed.**
   - **Example: "Develop a marketing strategy for the new feature."**
6. **E: End Result**
   - **Definition: The desired outcome or goal of the prompt.**
   - **Example: "Create a persuasive marketing campaign."**

Example Prompt:

Purpose: Developing a Case Study

- **Context:** A college professor is teaching a business strategy course.
- **Role:** A seasoned business professor.
- **Example:** A real-world company facing a significant strategic challenge.
- **Audience:** College students majoring in business.
- **Task:** Develop a case study analysing the company's strategic options and recommending a course of action.
- **End Result:** A comprehensive case study that includes a detailed analysis of the company's situation, strategic alternatives, and recommended solution.

Apart from these, there are several other frameworks, a few of which are depicted in the following image:
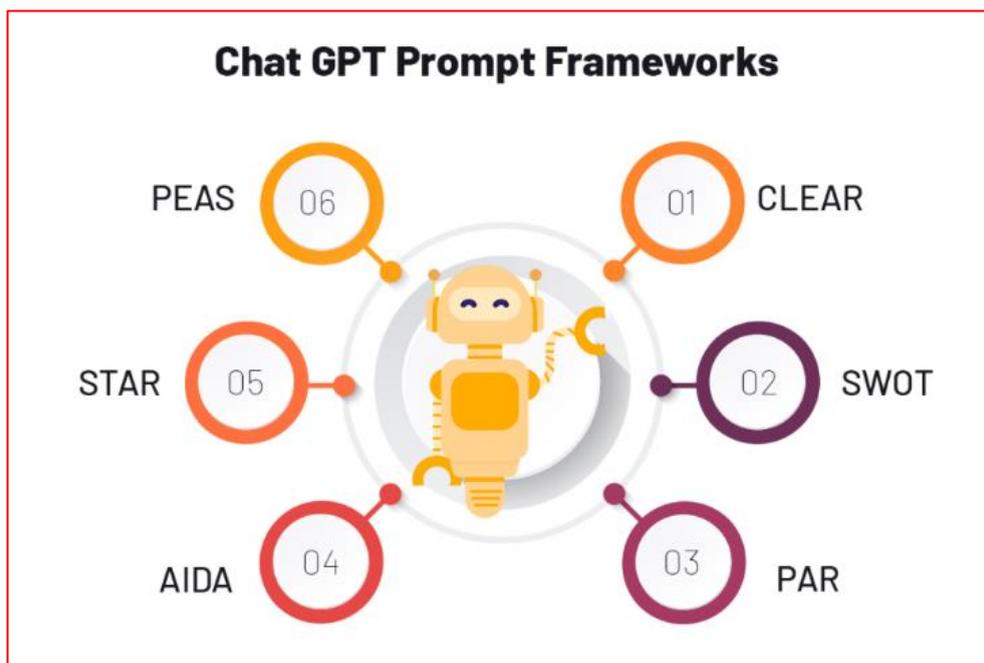
Source: [Advanced Prompt Engineering with ChatGPT Frameworks | Factspan](#)

By understanding and applying these frameworks, **one can significantly improve the quality and relevance** of their AI-generated outputs.

Experiment with **different approaches, refine your prompts, and discover the endless possibilities** of AI-powered communication.

News and Events

NMIMS Faculty Lounge-September

Topic: Demystifying Generative AI for Research Assistance Series 1 |Episode 4

Day, Date and Time: Thursday, September 26, 2024 @ 04:00 P.M.

The fourth episode of the ongoing series themed around GenAI at NMIMS was dedicated to using the generative AI tools for aiding in research.

Key Highlights

The meeting began with a warm welcome and introduction to the topic of the faculty lounge from **Dr. Praveen Kumar Loharkar (Assistant Professor, MPSTME, Shirpur Campus)**, followed by opening remarks from **Dr. Ramesh Bhat, Hon. Vice Chancellor**. He emphasized the importance of generative AI tools in research and highlighted the need for faculty members to stay ahead of the curve in utilizing these tools effectively.
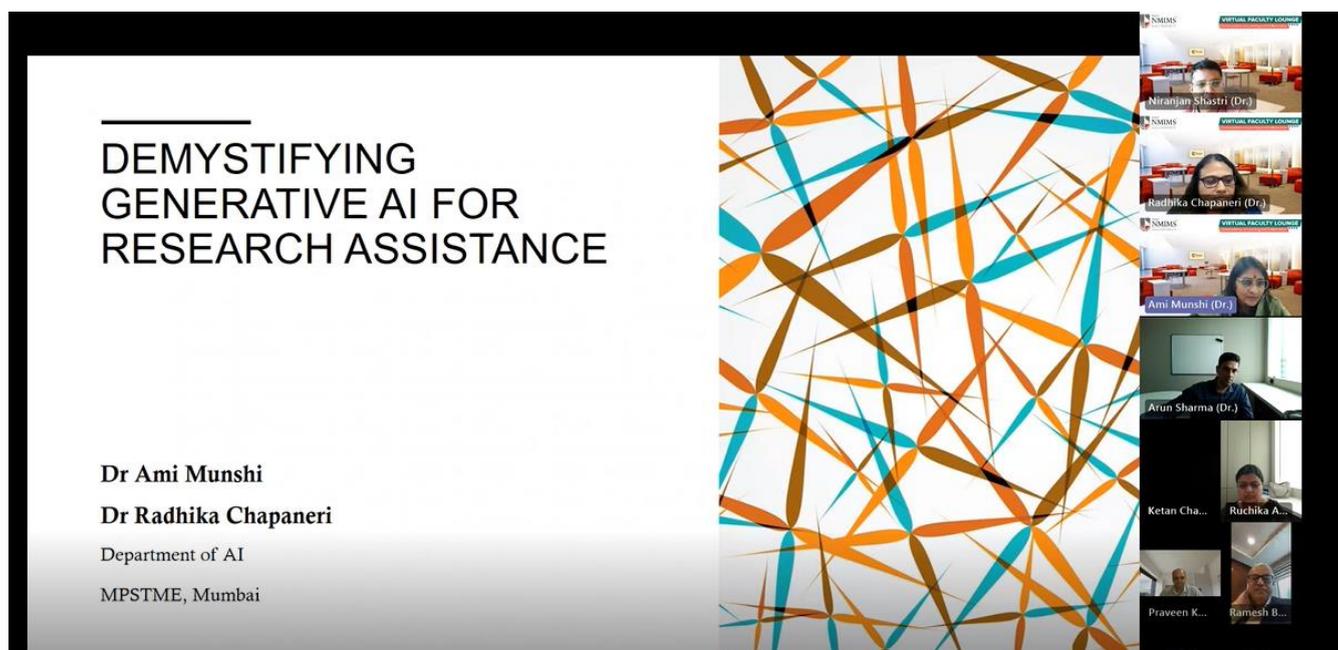
Dr. Radhika Chapaneri (**Assistant Professor, MPSTME, Mumbai)** and **Dr. Ami Munshi** (**Assistant Professor, MPSTME, Mumbai)** presented various tools that can assist researchers in their literature review process. They discussed tools such as **Connected Papers, Consensus AI, and Research Rabbit**, highlighting their features and functionalities.

Connected Papers was introduced as a tool that visualizes the connections between research papers, allowing researchers to explore prior work and related papers in a specific domain. **Consensus AI** was presented as a tool that provides topic-level synthesis and allows users to ask questions related to specific papers. **Research Rabbit** was discussed as a search engine tool that helps researchers find relevant papers and provides options for citation generation.

The presenters also mentioned **ongoing projects related to generative** AI in education, such as an English literature learning app and a private GPT for students. They emphasized the importance of using these tools ethically and avoiding plagiarism.

During the Q&A session, participants raised questions about the **appropriate citation for using generative AI tools in research papers**. The presenters explained that each tool has its own guidelines for citation, and they provided examples from the University of Waterloo's website. They also discussed the ethical concerns surrounding AI-assisted writing and the need for proper usage and verification of generated content.

The meeting closed with insightful closing remarks by **Dr. Vaishali Kulkarni** (**Professor and Associate Dean, MPSTME, Mumbai)** which primarily included the limitations exhibited by some of these tools and ethical concerns.

Meeting Link: [NMIMS Faculty Lounge- GenAI @ NMIMS University-September](#)

AICTE Training and Learning Academy Sponsored Offline FDP

Topic: Elevating Teaching and Research through Artificial Intelligence (AI) and Innovative Pedagogies
Duration: September 09-14, 2024.

The **ATAL Faculty Development Programme (FDP)** on **"Elevating Teaching and Research through Artificial Intelligence (AI) and Innovative Pedagogies"** was held from 9th to 14th September 2024 at SVKM's NMIMS, Chandigarh Campus.

This FDP aimed to enhance educators' teaching and research skills by integrating AI and innovative pedagogical techniques. It brought together distinguished experts to deliver sessions on leadership in education, AI tools, effective research strategies, and teaching excellence, providing a comprehensive learning experience for participants. Practical insights were also offered through an industrial visit, making the programme highly impactful. **Dr. Mohit Pahwa** and **Dr. Aditya Bakshi** along with **Mr. Mohit Sharma** from the IT team had put in remarkable efforts for the smooth conduct of this program.

AICTE Training and Learning Academy Sponsored Offline Faculty Development Programme on Elevating Teaching and Research Through Artificial Intelligence and Innovative Pedagogies.
9th to 14th September 2024
at SVKM'S NMIMS Deemed to be University, Chandigarh

Online FDP at Kirit P. Mehta School of Law, Mumbai

Topic: 'AI and Law'

Date: September 21, 2024.

As a part of the University's Gen AI initiative, Kirit P. Mehta School of Law organised an online FDP on 'AI and Law'. **Mr. Saakshar Duggal, Advocate-Delhi High Court**, addressed the nuances of Law for the faculty members. A total of 40 faculty members (both full time and visiting) attending the FDP and understood the intricacies involved in the legal aspects of Artificial Intelligence. **Dr. Swapnil Shenvi, Assistant Professor & Member-Gen AI Anchor team** coordinated this FDP.
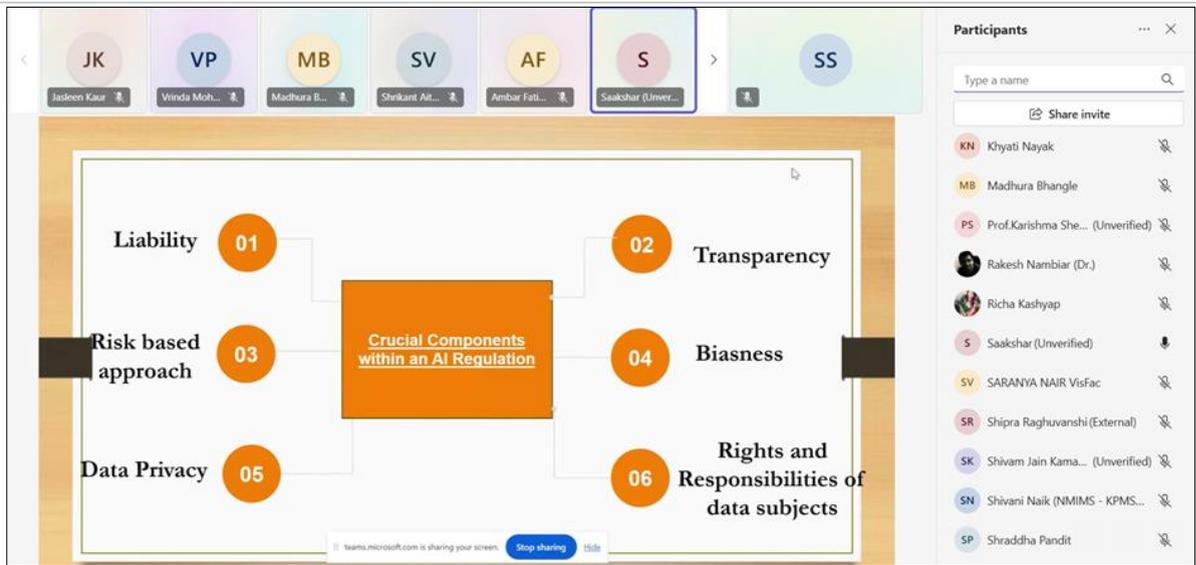
Resource person in National Level FDP

Topic: Importance of Application of AI Tools in Legal Pedagogy

Dr. Samraggi Chakraborty, School of Law, NMIMS, Bengaluru was invited as a resource person in a National level FDP organised by Techno India University, West Bengal. Her session was held on August 31 , 2024.

Dr. Samraggi discussed the growing integration of Artificial Intelligence (AI) into legal education, highlighting its importance in advancing the United Nations Sustainable Development Goal (SDG).

She emphasized how AI can assist educators and underscored the necessity of incorporating AI into legal pedagogy to better prepare students for the future job market.
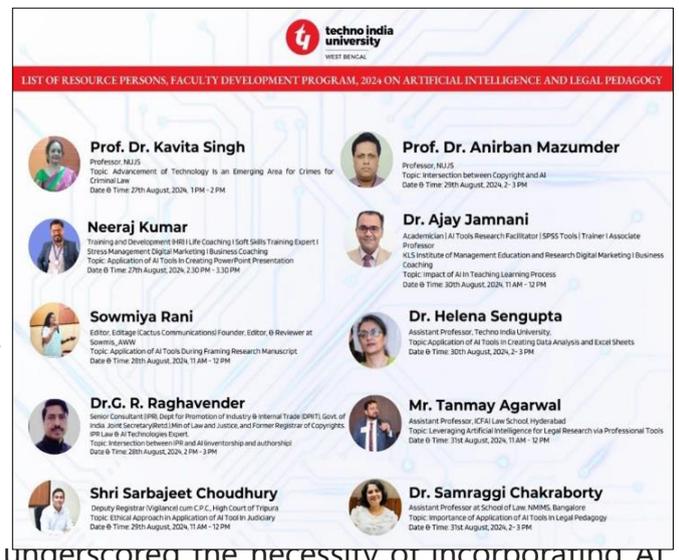
Topic: Enhancing Teaching-Learning using Generative AI Tools

Dr. Praveen Kumar Loharkar, MPSTME, Shirpur Campus, conducted an FDP on Enhancing Teaching-Learning using Generative AI Tools for the faculty members of Bharati College at th University of Delhi on September 24,2024.

The session was conducted in the practical mode whereion, Dr. Praveen demonstrated various use-cases on how to leverage GenAI tools in the generation of content, quality questions, summarization of online meetings, etc. He also talked about the ethical aspects of using such tools and the precautions to be taken.

Student Spotlight

Topic: Enhancing Teaching-Learning using Generative AI Tools

On August 28, 2024, Mahek Mushrif, a third-year B.Tech CE student from NMIMS Navi Mumbai, delivered a session on **Generative AI** at ITM Skills University in Kharghar. In her talk, she explained the core technologies behind Generative AI, such as **GANs (Generative Adversarial Networks)**, **VAEs (Variational Autoencoders)**, **transformers**, and **diffusion models**.

Mahek showcased the practical applications of these technologies, including **art, music creation**, and **problem-solving** across industries. Addressing challenges and limitations, she emphasized the importance of **prompt engineering** for improving AI output, while highlighting that AI complements but cannot replace human creativity. She concluded by encouraging students to explore the future possibilities of this transformative technology.

GenAI Initiatives at Various Campuses

Topic: STME Navi Mumbai's Manthan Club organized InnovateAI Jam

The **InnovateAI JAM**, organized on September 6, 2024, was a vibrant event that focused on the transformative potential of Generative AI (GenAI). The event attracted 23 teams, and participants engaged in problem-solving tasks across multiple sectors. In the legal field, teams demonstrated how AI could automate legal processes, while healthcare discussions highlighted its role in personalized treatment and mental health support. Ethical debates on AI doppelgängers and GenAI's role in education and public safety further expanded on the technology's broad applications.

Topic: STME Hyderabad's Code-IT Coding Club organized a session on ChatGPT in Everyday Life: Practical Applications and Future Possibilities

The Code-IT Coding Club of STME NMIMS Hyderabad organized a group discussion in the month of July, 2024 among first-year STME B.Tech students on the topic "ChatGPT in Everyday Life: Practical Applications and Future Possibilities."

The event encouraged insightful debates on the current uses of Gen AI-powered tools like ChatGPT. The discussion also included exploring their potential for transforming various fields in the future.

GenAI Tools Use-Cases

Creating Minutes of Meeting/ Action Items for Online Meetings Using Tactiq:

Step 1: Login/Create Account 🔑

- **Go to Tactiq's website: (https://app.tactiq.io/)**
- **Login to your existing account or create a new one**

Step 2: Upload Transcript ⬆️

- **Click "Upload a transcript or a recording"**
- **Select meeting transcript file (text, audio, or video)**
- **Upload pre-transcribed file (.vtt file)**

Step 3: Generate Summary ✨

- **Click "Generate Summary"**
- **Tactiq's AI creates concise summary**

Step 4: Review and Refine 📊

- **Review generated summary for accuracy**
- **Refine or edit as needed**
- **Check key points, decisions, and action items**

Step 5: Generate Minutes and Action Items 📝

- **Click "Generate Minutes" and/or "Action Items"**

Tactiq creates Minutes of Meeting outlining key discussions and decisions along with list of assigned tasks with due dates and responsible individuals. (**Free for 10 meetings in a month**)

Generating MCQs using QuestionWell Website

Step 1: Login/Create Account 🔑

- **Go to QuestionWell's website: (QuestionWell)**
- **Login to your existing account or create a new one**

Step 2: Enter Topic/Text 📚

- **Input topic, text, or URL related to the subject matter**
- **Select relevant subject and grade level**

Step 3: Choose Question Type 📝

- **Select "Multiple Choice" question type**
- **Choose difficulty level and question style (e.g., factual, analytical)**

Step 4: Generate Questions 💡

- **Click "Generate Questions"**
- **QuestionWell's AI will create MCQs based on input text**

Step 5: Download/Export 🔔

- **Download generated MCQs in desired format (e.g., PDF, Excel, Word)**
- **Export questions to Learning Management Systems (LMS) or online platforms**

QuestionWell can also generate **questions based on learning outcomes and YouTube Video/Website** Links. It also provides google **search option to verify the correctness** of suggested answers. (**Generating MCQs is free for lifetime**. Other question types require subscription of the tool)

Latest Updates and Trends

- As per the study based on national survey in US on Generative AI usage published in The Harvard Gazette, "GenAI has been embraced faster than the other popular path-breaking technologies such as internet and PCs." **Read more at**: Who's using generative AI and how are they using it? — Harvard Gazette!

- "Google has introduced a major update to its AI platform, Gemini, with the inclusion of the Imagen 3 model. This update enhances the AI's ability to generate images with greater detail, realism, and accuracy. The roll-out extends to both paid and free users of the Gemini platform." **Read more at**: https://www.gizbot.com/apps-software/google-updates-gemini-with-imagen-3-how-to-start-creating-ai-images-103525.html

- "Generative AI's massive computational needs could push companies to build gigawatt-scale data centers, using as much as 20 times more power than average data centers today. This growing demand for data center power is already prolonging the life of coal-fired plants. Morgan Stanley predicts that if this continues, global greenhouse emissions could triple by 2030 compared to a scenario without generative AI development." **Read more at**: Generative AI start-ups attracted $3.9B investments in Q3 2024.

- Employers are increasingly suggesting that there's a need for students to be trained in generative artificial intelligence tools as more businesses integrate the tech's capabilities into the workplace. In line with this, "Entrepreneurship professor **Mark Lacker at Miami University** in Ohio encourages students to use **generative AI tools to complete projects**, inspiring creative and critical thinking skills that can prepare them for careers." **Read more at**: Professor encourages generative AI for college class projects.

- "Meta, the parent company of **Facebook and Instagram**, recently announced that it is releasing new AI models, including a **"Self-Taught Evaluator"**, from its research division. Among other things, this AI model uses AI to evaluate other AI models, potentially reducing the need for human involvement in the development process." **Read more at:** Facebook parent Meta releases AI model that can reason: "...as AI becomes more and more super-human..."

Reference Links

- How To Write ChatGPT Prompts: Your 2024 Guide | Coursera
- 10 ChatGPT Prompt Engineering Frameworks You Need To Know | by Shushant Lakhyani | Medium
- Preparing for the new AI workforce in higher education

Stay tuned and keep track of our progress in Generative AI at NMIMS University!

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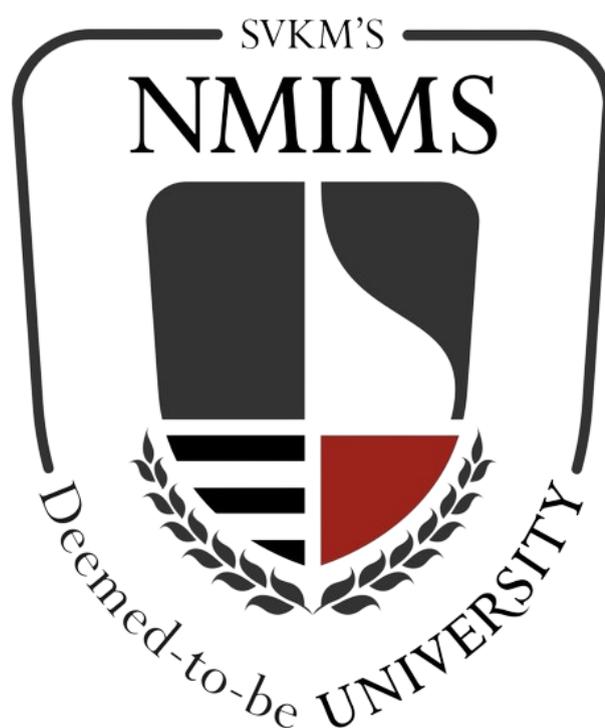
Kindly send your **feedback and contributions** on **GenAI use-cases to your respective school or campus representatives in the newsletter team or genai.newsletter@nmims.edu before the 25th of every month!**