

SVKM'S NMIMS

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
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Preface

The January 2026 issue of EduGenAI focuses on the growing shift from standalone AI tools to integrated, AI-driven workflows in academic settings. As generative and agentic systems mature, orchestration platforms are becoming central to how institutions design, manage, and scale AI-enabled processes.

The cover article, “Orchestration Tools in the Generative AI Era: A Deep Dive into n8n, Jasper AI & Modern Workflow Platforms,” examines how open-source automation, multi-agent content systems, and enterprise orchestration tools are shaping the next phase of AI adoption. It highlights both the opportunities these platforms offer and the practical considerations institutions must address.

This issue also features updates from across NMIMS, including Faculty Development Programs, workshops, and faculty contributions that reflect a sustained focus on applied learning and responsible AI use. A featured use-case demonstrates how Microsoft Copilot can support lesson planning within familiar teaching environments, reinforcing the role of AI as an assistive, not substitutive, tool.

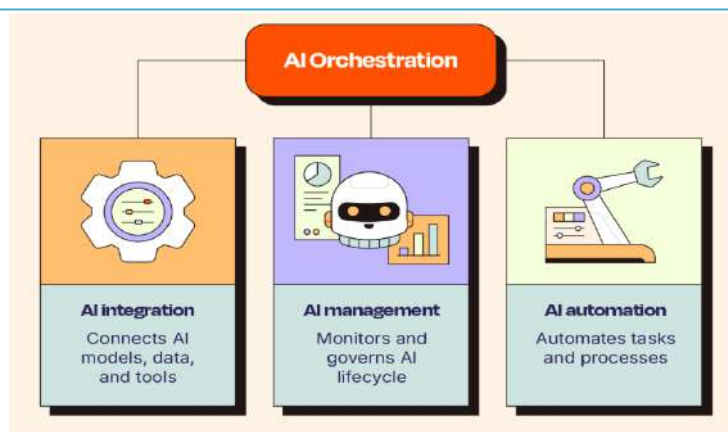
Through institutional insights and global updates, EduGenAI continues to support informed dialogue and thoughtful adoption of generative and agentic AI in education.

Warm regards,

The EduGenAI Newsletter Team

In this edition

- *Orchestration Tools in the Generative AI Era: A Deep-Dive into n8n, Jasper AI & Modern Workflow Platforms*
- News and Events: December 2025
- GenAI Tools Use-Cases
- Latest Updates and Trends



Orchestration Tools in the Generative AI Era: A Deep-Dive into n8n, Jasper AI & Modern Workflow Platforms

The rapid growth of Generative AI has reshaped how businesses build, scale, and manage digital processes. As organizations integrate AI into everyday workflows—marketing, analytics, customer service, operations; the need for **orchestration tools** has become essential. These tools act as the “glue” connecting systems, LLMs, APIs, and human decision points into cohesive, reliable workflows.

This article explores the evolution of these tools and their expanding role in the AI-driven workplace.

Introduction

Among the leading tools reshaping this space are **n8n**, an open-source automation platform; **Jasper AI**, a multi-agent content orchestration system; and a growing ecosystem of **AI workflow orchestration platforms** designed for scalability and enterprise automation.

This article explores how these platforms are evolving and why they will define the next generation of AI-enabled work.

n8n: The Open Automation Engine for AI-Driven Workflows

n8n has evolved from a developer-friendly workflow editor to a **full-scale automation and AI orchestration backbone**. Its **visual node-based interface**, **open-source foundation**, and **extensibility** make it a top choice for teams that want flexibility without vendor lock-in.

A Platform Evolving for AI

Recent updates to n8n emphasize three core areas:

- **AI-assisted workflow design** through built-in agents and multi-model support
- **Enhanced scalability**, including horizontal scaling and improved performance for large workflows
- **Enterprise features**, such as access **control**, **versioning**, **Git integration**, **improved observability**, and **Kubernetes-native** deployments

n8n now includes autonomous **AI Agents** capable of making multi-step decisions, retaining context, and using LLMs to execute tasks intelligently—transforming workflows from rule-based sequences into adaptive systems.

Security, Reliability & Performance

The major architecture improvements introduced in n8n 2.0 and subsequent versions add secure task isolation, performance enhancements through database pooling, and safety features such as restricted code execution and metadata governance. These features help organizations confidently handle sensitive data while tapping into AI workflows.

Hosting for AI Workloads

As AI-driven automations become more complex, hosting n8n in production environments increasingly requires:

- High-availability clusters
- Auto-scaling infrastructure

- Secure credential storage
- Advanced monitoring and audit trails

This shift positions n8n not just as a workflow tool, but as critical infrastructure for AI operations.

Jasper AI: Content Orchestration in a Multi-Agent Marketing World

While n8n focuses on system-level automation, **Jasper AI** is purpose-built for **marketing and content teams**. Its transformation into a multi-agent platform marks a new direction for AI-driven content operations.

The Multi-Agent Marketing Platform

Jasper's updated offering includes:

- **Jasper Canvas**, a collaborative workspace where teams plan campaigns, organize assets, and generate content
- **Marketing-focused agents** that help ideate, draft, refine, and optimize content
- **Brand Voice memory**, ensuring output remains consistent across teams, platforms, and languages
- **Automated workflows**, supporting repeatable content processes such as email sequences, blog pipelines, and ad generation

These agents don't just generate text; they help structure strategies, maintain brand coherence, and streamline multi-channel execution.

Strengths for Modern Teams

Jasper stands out for marketing teams because:

- Templates and structured workflows reduce time spent drafting
- SEO tools are integrated directly into the writing flow
- Collaboration features align multiple stakeholders
- Multilingual and multimedia generation support enhances global reach

This positions Jasper as a **content operations engine**, not merely a writing assistant.

Known Limitations

Users generally report:

- Higher costs at scale
- Occasional rigidity in templates
- Need for human oversight for accuracy and originality

Despite these trade-offs, Jasper remains one of the strongest platforms for large-scale, brand-consistent content production.

The Wider Ecosystem: AI Workflow & Orchestration Tools (2026 Landscape)

Beyond n8n and Jasper, the orchestration landscape includes a wide variety of platforms focusing on different dimensions of AI workflows.

3.1 Open-Source & Developer-First Orchestration

Tools like **Apache Airflow**, **Prefect**, **Dagster**, and **Kubeflow** are widely used for:

- Data flow orchestration
- AI/ML pipeline management
- Scheduling and dependency management
- Cloud-native deployments

These are often favored in data engineering, analytics, and ML Ops teams.

Business-Focused Workflow Orchestration

Platforms such as **Zapier**, **Make**, and various iPaaS solutions provide:

- No-code builder interfaces
- Connectors to business apps
- Event-driven automation
- Human-in-the-loop support

They offer quick automation without deep engineering effort.

Large-Scale AI Orchestration Platforms

Newer platforms merge LLM coordination with enterprise observability. These tools provide:

- Multi-LLM routing and orchestration
- Autoscaling for heavy AI workloads
- Governance and compliance controls
- Cost visibility and optimization mechanisms

As AI agents and multi-model setups become widespread, these platforms will become foundational.

Enterprise iPaaS for Regulated Industries

For finance, healthcare, and public services, compliance-focused iPaaS platforms emphasize:

- Secure data handling
- Policy-driven workflows
- Traceability and audit logs
- Hybrid deployments (on-prem + cloud)

These systems support AI adoption in environments with strict regulatory demands.

Conclusion

Workforce automation is entering a new era—one where **AI, orchestration tools, and human collaboration** merge to create adaptive, intelligent workflows.

- **n8n** provides the flexibility of open-source automation with enterprise-ready AI capabilities.
- **Jasper AI** brings multi-agent orchestration to marketing, enabling fast, consistent, scalable content production.
- **The broader ecosystem** offers specialized solutions for data pipelines, cloud workflows, enterprise governance, and large-scale multi-LLM orchestration.

As AI adoption accelerates, these tools form the backbone of modern digital operations—turning fragmented processes into cohesive, AI-powered systems that scale with confidence.

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News and Events

Events at NMIMS, Mumbai

Topic: One-Week FDP on Generative AI and Agentic Systems: From Foundations to App Development

A five-day Faculty Development Program (FDP) on “**Generative AI and Agentic Systems: From Foundations to App Development**” was successfully conducted from **December 15 to 19, 2025**, in offline mode at the AI Lab, 6th Floor, **Mukesh Patel School of Technology Management & Engineering**, Mumbai. The program was coordinated by **Dr. Hima Deepthi Vankayalapati**, Associate Professor, Artificial Intelligence Department, and **Dr. Vaishali Kulkarni**, Professor and Head, Artificial Intelligence Department under the guidance of **Dr. Koteswara Rao Anne**, Dean, **MPSTME**.



The FDP brought together **faculty members and researchers for an intensive learning experience** covering key areas such as Generative AI, Agentic Systems, computer vision, MLOps, generative models, transformer architectures, and large language models. Sessions were led by eminent academicians and industry experts from institutions and organizations **including NIT Hamirpur, ExxonMobil, The Dow Chemical Company, IIT Bombay, Wolters Kluwer, and Infosys**.

The program was designed to balance strong theoretical foundations with hands-on exposure, progressing from core AI concepts to practical application development. Participants engaged in practical sessions on prompt engineering, fine-tuning and adapting large language models, designing agentic AI workflows, and building AI-driven applications using modern frameworks and APIs. **The FDP concluded with a session on Responsible and Ethical AI, followed by an App Development Challenge and Hackathon**, where participants collaborated to develop innovative solutions, with prizes awarded to the best three teams. Overall, the **FDP offered a comprehensive and enriching platform that strengthened participants' capabilities in applying Generative AI and Agentic Systems** in teaching, research, and real-world problem solving.

Faculty Spotlight

Topic: *Resource Person: Faculty Development Programs on GenAI*

Dr. Praveen Kumar Loharkar, Assistant Professor, Department of Artificial Intelligence and Machine Learning, MPSTME, Shirpur Campus, has made contributions as a Resource Person in **two national-level Faculty Development Programs** held in December 2025.



The first program titled, one-week **FDP “PharmSkills 5.0: Integrating AI-Mediated Pedagogy for Enhanced Student Engagement and Future-Ready Education in Pharmaceutical Sciences”** was organized by the Association of Pharmaceutical Teachers of India in collaboration with the School of Pharmacy and Technology Management & Engineering from Decmber 09-13, 2025.

In addition, **Dr. Loharkar served as a Resource Person for the National Level FDP on “Integrating AI Tools for Effective Teaching and Assessment”**, organized by V.B. Kolte College of Engineering, Malkapur from December 16-20, 2025. His expert session conducted on 20 December 2025 focused on emerging AI tools and their effective use in teaching and assessment practices.



The **organizing committee acknowledged his valuable contribution and the positive impact of his session through an official letter of appreciation.**

His consistent involvement in both FDPs highlights his commitment to faculty development, interdisciplinary collaboration, and the advancement of AI-enabled education.

Topic: *Resource Person: Gen AI Mastery for Educators & Researchers*

CS (Dr) Swapnil Shenvi, Assistant Professor, Kirit P. Mehta School of Law, was invited as a Resource Person to deliver a session at the Faculty Development Workshop titled '**Gen AI Mastery for Educators & Researchers: A Practical Faculty Workshop**' by **Pragati Degree College, University of Mumbai**, on **December 09, 2025**. This workshop was exclusively for the faculty members of the college wherein more than 10 tools were discussed and practically implemented.



Topic: *Resource Person: Gen AI for Educators & Teaching-Learning Process*

CS (Dr) Swapnil Shenvi, Assistant Professor, Kirit P. Mehta School of Law, was invited as a Resource Person to conduct a Faculty Development Program on '**Generative AI for Educators and Teaching-Learning Process**' by **PP Savani University, Gujarat**, on **15th December 2025**. Total 11 faculty members of School of Liberal Arts and Management attended the 2 hour session where 7 Gen AI tools were practically demonstrated and implemented by faculty members.

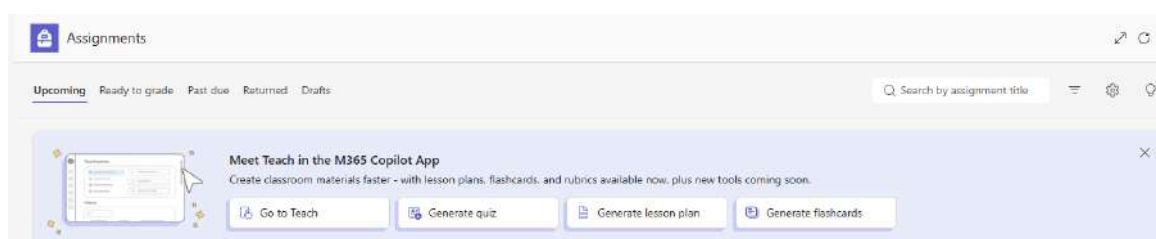


GenAI Tools Use-Case

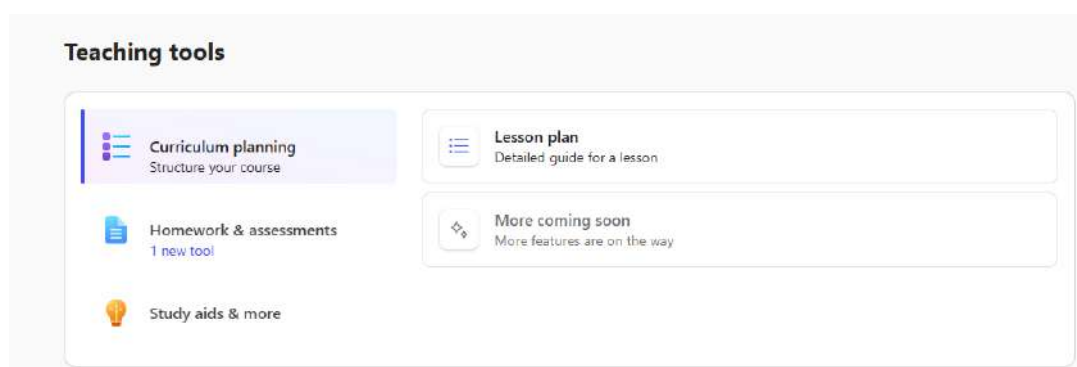
Topic: *From Syllabus to Lesson Plan in Minutes: Using Copilot in Microsoft Teams to Support University Teaching*

This use case shows how educators can use **Copilot inside Microsoft Teams** to speed up lesson planning while keeping academic intent and instructor control intact.

- In the attached workflow, a university instructor working in Microsoft Teams opens the Assignments and Teach experience and accesses **Copilot-powered teaching tools**.

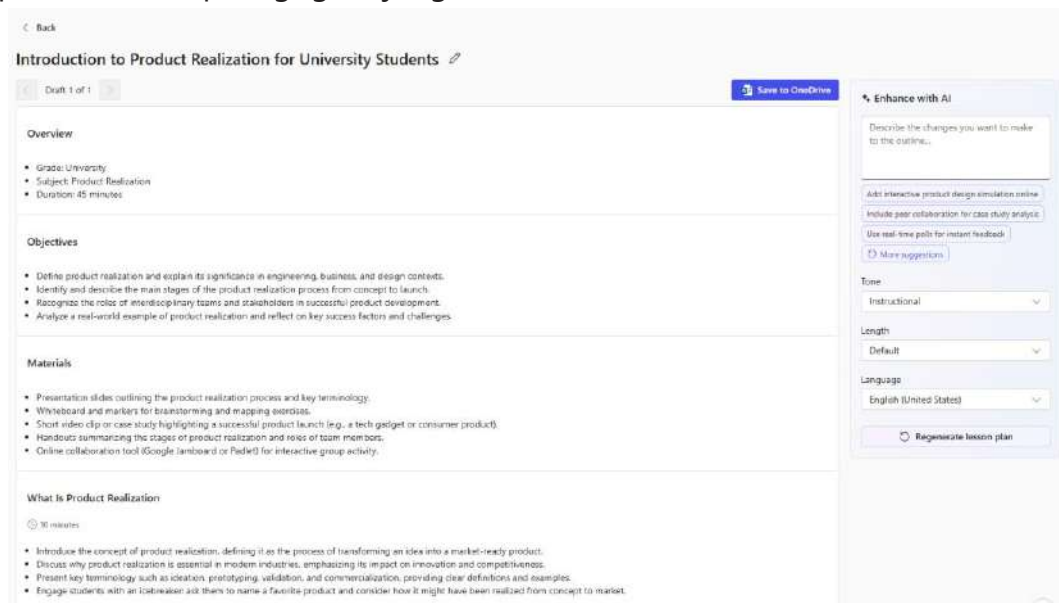


- Starting with a simple prompt and an uploaded syllabus document, Copilot generates a complete, structured lesson plan aligned to higher education needs. The instructor specifies the subject, grade level, language, and class duration, then lets Copilot draft **objectives, activities, materials, and time allocations**.



- Once the initial lesson plan is created, the educator can refine it using the **"Enhance with AI"** panel. Here, Copilot suggests **improvements such as adding interactive simulations, peer collaboration, or real-time feedback** tools.

- The **tone, length, and language** can be adjusted, and the lesson can be regenerated iteratively until it fits the instructor's teaching style and learning outcomes.
- The final plan can be saved directly to OneDrive and reused or adapted for future sessions.
- For educators, this reduces the time spent on **routine planning and formatting**, especially when designing new courses or revising existing ones.
- For students, **the result is a more consistent and well-structured learning experience, with clearer objectives and more engaging activities**. Importantly, the instructor remains in control at every step, using Copilot as a drafting and enhancement assistant rather than a replacement for pedagogical judgment.



Stages of the Product Realization Process

🕒 12 minutes

- Outline the main stages: ideation, concept development, design, prototyping, testing, manufacturing, and launch.
- Use a visual flowchart to illustrate how each stage connects and builds upon the previous one, highlighting feedback loops and iteration.
- Discuss the value of diverse perspectives in problem-solving and innovation, referencing research or industry examples.
- Facilitate a quick group activity: students map out the realization process for a simple product (e.g., a reusable water bottle) on the whiteboard.

Interdisciplinary Teams and Stakeholder Roles

🕒 10 minutes

- Explain the necessity of interdisciplinary collaboration, describing roles such as engineers, designers, marketers, and project managers.
- Highlight the value of diverse perspectives in problem-solving and innovation, referencing research or industry examples.
- Introduce the concept of stakeholders, defining internal and external stakeholders and their influence on product outcomes.
- Conduct a role-play activity where students assume different team roles and discuss how they would address a common challenge in product development.

Case Study Analysis and Reflection

🕒 13 minutes

- Present a short video or written case study of a successful product realization, such as the development of the Fitbit or another innovative product.
- Guide students in identifying the key stages and team roles evident in the case study, linking them back to earlier lesson content.
- Encourage students to discuss what factors contributed to the product's success and what challenges were overcome, fostering critical thinking.
- Wrap up with an exit ticket: students write down one insight about product realization and one question they still have, providing formative assessment data.

+ Add section

AI-generated content may be incorrect.

This example highlights a practical generative AI use in education: supporting instructional design directly inside the tools educators already use, without requiring separate platforms or complex setup. **Explore the feature further: [Lesson Plan Creation with AI - Microsoft Support](#)**

Latest Updates and Trends

- **OpenAI launches “Education for Countries” program:** OpenAI unveiled its new global initiative Education for Countries on January 21, 2026, partnering with governments and universities to integrate AI into national education systems. The program aims to enhance learning outcomes, strengthen AI-driven skill development, and support large-scale adoption of educational AI tools with measurable impact. **Read more at:** [AI News January 2026: In-Depth and Concise](#).
- **Anthropic introduces Claude for Healthcare and Life Sciences:** Anthropic launched **Claude for Healthcare, a specialized AI suite powered by Claude Opus 4.5**, on January 11, 2026. The system focuses on administrative efficiency, safe deployment, and professional-review safeguards. It integrates with medical databases such as **Medidata, CMS and PubMed** to automate workflows including documentation, case review, and clinical data handling—while avoiding direct clinical decision-making risks. **Read more at:** theaitrack.com/anthropic-launches-claude-for-healthcare/.
- **Google launches Gemini Personal Intelligence with cross-app reasoning:** Google introduced Gemini **Personal Intelligence on January 14, 2026**, a new beta feature that allows Gemini to reason across users' **Gmail, Photos, Drive, YouTube history, and Search data** to deliver highly personalized responses. The feature **remains off by default**, giving users full control over which apps to connect, and emphasizes privacy by keeping all retrieved data within Google's secure ecosystem. Rolling out initially to AI Pro and AI Ultra subscribers, the system provides more context-aware assistance; such as retrieving details from photos, emails, or travel history, to enhance everyday tasks. **Read more at:** [Google Just Gave Gemini "Personal Intelligence"](#).
- **Google Classroom adds AI-generated podcast lessons using Gemini:** In early January 2026, Google introduced a **new feature in Google Classroom that lets educators create podcast-style** audio lessons powered by its Gemini AI. Teachers **choose topics, grade levels, and learning goals**, and the system generates narrated lessons with structured segments and conversational dialogue to help students engage with material in a new format. **Read more at:** [Google Workspace Updates: Generate podcast-style audio lessons in Google Classroom using Gemini](#).

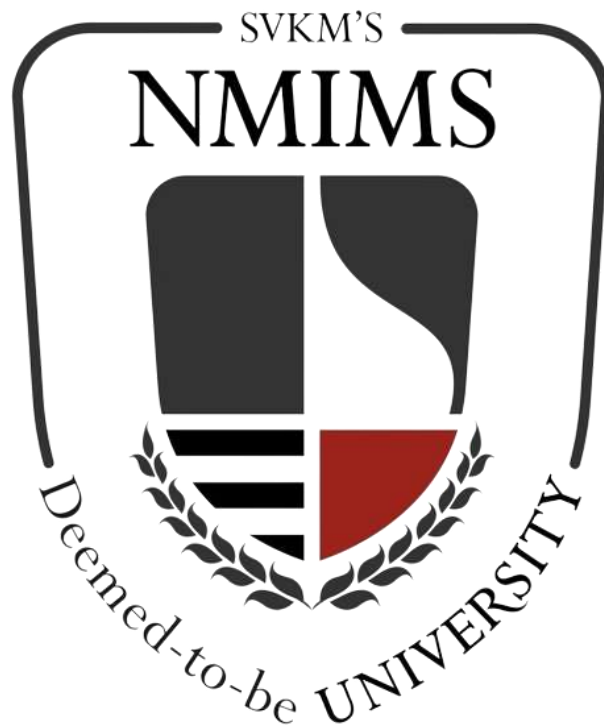
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- [AI content automation built for marketers | Jasper](#)
- [What is Microsoft 365 Copilot? | Microsoft Learn](#)
- [Microsoft 365 Copilot | AI Productivity Tools for Work](#)

Keep pace with the evolving field of Generative AI through **the EduGenAI Newsletter**, offering global perspectives, **recent innovations, and key research developments**.

Warm regards,

The EduGenAI Newsletter Team



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