Narrativa

Autonomous Narrative Engine Competition

Ingenium — IIT Indore

Competition Overview

"True automation moves beyond simple execution to complex orchestration, turning raw data into compelling, structured narratives."

Modern Generative AI systems excel at isolated tasks such as text generation or image creation, but often fail to produce coherent, end-to-end narratives without significant human guidance.

The **Narrativa** competition challenges participants to build an **Autonomous Narrative Engine** capable of functioning as a research analyst, copywriter, and visual designer simultaneously. The system must autonomously transform a high-level topic into a polished, professional presentation deck with strong narrative and visual coherence.

Problem Statement

Participants are required to design and implement a system that accepts a vague or high-level topic and autonomously generates a complete presentation.

The system must handle the full pipeline:

- Researching live or up-to-date information
- Synthesizing a coherent narrative arc
- Generating context-aware visual assets
- Assembling content into a structured presentation format

A key challenge is **autonomous context retention**, ensuring that all slides remain thematically, visually, and narratively consistent without human intervention.

Deliverables

Source Code & Repository

- Complete codebase hosted on a version-controlled repository
- A clear `README.md` with setup and execution instructions

Generated Output

- A final presentation file (PPTX, PDF, or interactive web deck)
- Minimum of 5 slides generated entirely by the system on a given topic

Demo Video

- A 2–3 minute walkthrough demonstrating autonomous execution
- Coverage from prompt input to final presentation render

Short Technical Report

- Concise document (PDF or Markdown)
- Explanation of system architecture and agentic workflow
- Description of interactions between different AI components

Key Functional Requirements

Autonomous Research & Verification

- System must infer search queries from vague intent
- Information must be factual and grounded in reality
- Citations or verifiable data points must be included

Context-Aware Visual Generation

- Visuals must be generated based on slide content (e.g., charts, diagrams)
- Generic stock imagery alone is insufficient
- Visual consistency (style, color palette, typography) must be maintained

Adaptive Layout Engine

- Layouts must be selected intelligently (timeline, comparison, hero, etc.)
- Text placement must be programmatic with no visual overlap
- Readability and structural clarity are mandatory

Creative Enhancements (Innovation Scope)

Participants are encouraged to explore:

- Audio synthesis (narration scripts or voiceovers)
- Dynamic animations or transitions
- Interactive elements such as live charts or embedded data

Judging Criteria

Criterion	Weightage	Description
System Architecture & Complexity	30%	Sophistication of orchestration, agent design, and error handling
Output Quality & Coherence	30%	Narrative flow, visual fidelity, and professional presentation quality
Innovation & Wow Factor	20%	Creative modalities and unique design approaches
Automation & User Experience	20%	Zero-shot reliability, efficiency, and usability

Rules are subject to change at the discretion of the organisers.
Further instructions will be communicated to registered participants.