



LANGCHAIN MYSTERIES

AI based investigation competition where participants must use Speech-to-Text, Document Analysis, and LangChain Reasoning to solve a digital case.

Contact Us:

-  +92 316 3677527
-  FAST NUCES KARACHI

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COMPETITION STRUCTURE

- The competition consists of three stages, each testing a different AI capability.
- Participants have to bring their own laptops
- Stage 1 → Audio Intelligence
- Stage 2 → Document Forensics
- Stage 3 → Final Reasoning
- Each Stage contains 5–6 auto-graded questions.
- No stage can be solved without running the required pipeline.



COMPETITION STRUCTURE

Stage 1 – Audio Intelligence

- Participants receive four audio files.
- Using Speech-to-Text + LangChain, teams must extract answers to questions.
- Answers are submitted through the portal.

Stage 2 – Document Forensics

- Participants receive a multi-page dossier.
- Using LangChain with an LLM, teams must extract:
- Who accessed system logs and finances
- Who conducted unauthorized experiments
- No embeddings or vector databases are allowed.

Stage 3 – Final Case Resolution

- Participants receive additional documents and using a LangChain reasoning chain, teams must determine the murderer.

ALLOWED TECHNOLOGY

Permitted

- Python
- LangChain
- Whisper / HuggingFace / Deepgram
- GPT-style LLMs (OpenAI / Groq)
- Flask or FastAPI

Not Permitted

- OCR tools
- Vector databases or embeddings
- Manual or hard-coded answers
- Unauthorized APIs



SCORING AND DURATION

Duration : 3 hours

Weightage

- 1. Stage 1 : 30%**
- 2. Stage 2 : 30%**
- 3. Stage 3 : 30%**
- 4. Code Quality : 10%**

Bonus points

- 1. Modular pipelines**
- 2. Logical reasoning**
- 3. Clean documentation**

DISQUALIFICATION & GENERAL RULES

Teams will be disqualified for:

- Hard-coding answers
- Not running actual AI pipelines
- Plagiarism
- Using prohibited tools
- External collaboration

General Rules:

- Teams must work independently
- No inter-team communication
- Organizers may modify rules if needed
- Violations result in immediate disqualification

