



# LANGCHAIN MYSTERIES

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

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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.

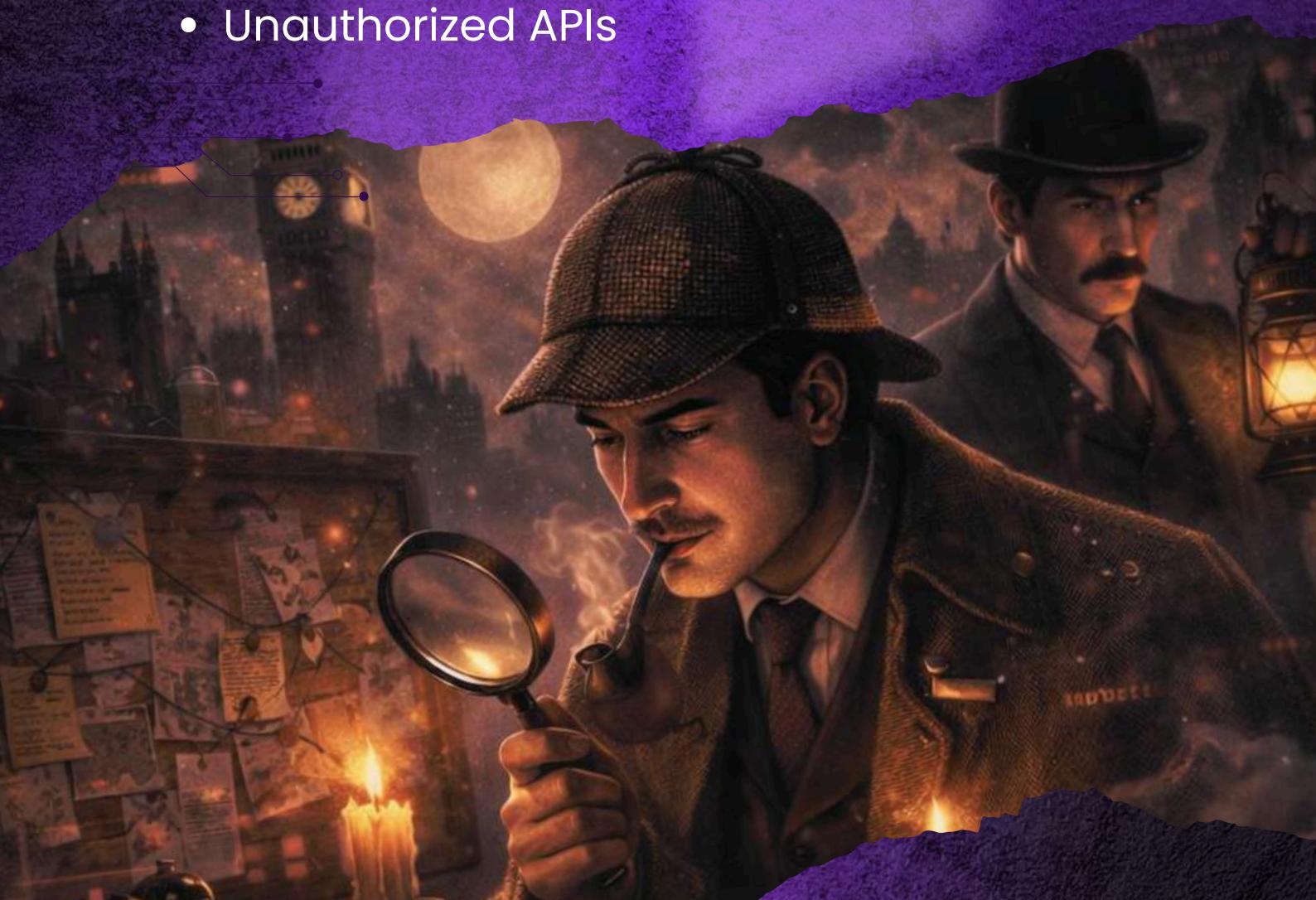
# ALLOWED TECHNOLOGY

## 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

