Catnip Infotech Private Limited

G.R Plaza, 4th Floor, 17th CrossRoad, Sector 4, HSR Layout, Bengaluru, Karnataka 560102

Letter to the Participants

Dear Students,

We are thrilled to welcome you to this technical hackathon!

Your passion for learning and exploring the world of coding and technology is truly commendable. Your participation not only reflects your dedication but also serves as an inspiration to others, showcasing your belief in yourself and your commitment to enhancing your skills in the ever-evolving technology landscape.

As we witness the transformative impact of AI on technology, it is vital for you, as Gen-Z, to embrace and understand the nuances of these advancements. Gaining insights into emerging technologies will empower you to thrive and excel in the industry.

Wishing you all the very best for this hackathon.

Best regards,
Mr. L.K. Santhosh Kumar & Ms. Gayathri
Directors

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1. Introduction

The hackathon aims to create a dynamic and engaging experience, empowering participants to push the boundaries of their technical expertise while contributing meaningful solutions to pressing challenges on the Gen AI Technology.

2. Objective:

The objective of this **Technical Hackathon** is to foster **innovation**, **collaboration**, and **problem-solving skills** among participants by challenging them to design, develop, and implement cutting-edge technological solutions. This event aims to:

1. **Encourage Innovation:** Inspire participants to think creatively and build innovative solutions for real-world problems.
2. **Enhance Technical Skills:** Provide a platform to apply technical knowledge in practical, hands-on scenarios.
3. **Promote Collaboration:** Foster teamwork and collaboration among participants from diverse backgrounds.
4. **Solve Real-World Challenges:** Address industry-specific or global challenges through technology-driven solutions.
5. **Build Prototypes:** Enable participants to create functional prototypes or minimum viable products (MVPs).
6. **Encourage Learning:** Create an environment where participants can learn new tools, frameworks, and technologies.
7. **Drive Entrepreneurial Thinking:** Inspire participants to think beyond the hackathon and consider real-world implementation and scalability of their ideas.

3. **Theme:** Industry Use cases of GENAI

4. Problem Statement:

Use Case No	Description
1	How GENAI can improve visibility around supply chain or product movement? Use GENAI as an advisor to provide insights into one or more of the following
	- Movement of trucks in and out of a plant, in association with vehicle tracking system
	- Monitor shipments from supplier and expected in arrivals
	- Monitor ship movements and generate docking schedule based on ship locations and allotment of wharfs or piers
2	How GENAI can enhance the sales measurement and forecasting process. Integrate a sales forecasting model with GENAI.
	Develop a chatbot/user interface that can invoke a predictive model and answer queries on current and expected sales of different products.

The above mentioned is the Generic Use case/ Problem Statement provided for the participants specific to the industry verticals. This is an Open-ended theme where we allow the participants to define their problems according to the industry vertical & propose solution using GENAI tools & technology.

Note: The above are potential use cases. You can define and demonstrate your specific use case by utilizing dummy data from Kaggle.

5. Key Guidelines:

- **Be clear and precise:** Avoid ambiguity.
- **Provide Context:** Explain the problem and its real-world relevance.
- **Set Constraints:** Specify rules, resources, or limitations.
- **Define Deliverables:** Clearly state what needs to be submitted (e.g., prototype, presentation, code).

6. Example Template:

1. **Problem Title:** Smart Traffic Management System
2. **Description:** Design an AI-powered system to optimize urban traffic flow using real time data.
3. **Requirements:**
- Use real-time data from traffic cameras.
- Provide a dashboard with live traffic updates.
   Deliverables: Source code, presentation deck, and demo video.

7. Difficulty Levels

Divide the challenges into **easy**, **medium**, and **hard** categories:

- **Easy:** Suitable for beginners, quick to solve.
- **Medium:** Requires intermediate knowledge and effort.
- **Hard:** Complex problems for advanced participants.

Example:

- Easy: Build a chatbot for FAQs.
- Medium: Create a recommendation engine.
- Hard: Implement an end-to-end secure block chain-based voting system.

8. Scoreboard:

- Break down tasks into manageable timelines.
- Allocate points based on complexity, creativity, and functionality.

· Define evaluation criteria:

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- o **Innovation (30%)**
- o **Technical Implementation (40%)**
- o **Usability (20%)**
- o **Presentation (10%)**

9. Provide Resources

- · APIs, sample datasets, libraries, or tools.
- · Access to necessary software or platforms.
- · You work needs to be given on the GitHub Repositories we are providing.

10. Judging Criteria:

- · Technical proficiency
- · Creativity and originality
- · Problem-solution fit
- · Scalability

11. Hackathon Submission Guidelines

To ensure a smooth evaluation process and maintain fairness across all teams, please adhere to the following submission guidelines:

General Submission Requirements

- · All submissions must be completed and uploaded **before the deadline**. Late submissions will not be accepted.
- · Each team can submit **one entry only**.
- · Submissions must be made through the **official hackathon portal/platform** or as instructed by the organizers.
- · Ensure your submission adheres to the **theme and problem statement** provided during the hackathon.

12. Project Deliverables

Each team must submit the following:

a. **Source Code:**

- o Include all source code files in a **public GitHub repository** or provide a downloadable ZIP file.
  - o Ensure clear documentation in a README.md file, including setup instructions, technologies used, and prerequisites.

b. Demo Video:

Every team will be given 20 **minutes time for** explaining the project, highlighting key features, and demonstrating functionality, which will be recorded and used by the company on social media platforms for promotions.

c. **Presentation Deck:**

· Submit a **PowerPoint (PPT)** or **PDF presentation** summarizing:
- o Problem statement
- o Proposed solution
- o Technology stack
- o Demo screenshots
- o Future improvements

d. **Prototype / Working Demo:**

· If applicable, provide a **live demo link** or an executable file.
· Include credentials if login is required.

e. **Documentation Requirements**

· Include a **README.md** file in your submission with:
- o Clear setup and deployment instructions
- o Key functionalities explained
- o Team member names and roles
· Provide **technical documentation** if your solution involves complex architectures, APIs, or third-party integrations.
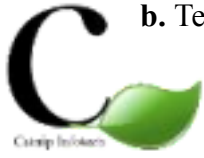
f. **Technical Requirements**

· Ensure compatibility with standard **browsers** and **operating systems**. · Clearly mention any **dependencies** or **third-party tools** used.
· Avoid using unauthorized third party APIs, datasets, or libraries.

g. **Submission Deadline**

· All submissions must be completed by **9th January 2025.**
· Ensure all files and links are functional before the deadline.

h. **Evaluation Criteria Alignment**

Submissions will be evaluated based on:

a. Innovation & Creativity
b. Technical Implementation

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c. Functionality & Usability
d. Scalability & Practicality
e. Presentation & Clarity

Ensure your project aligns with these criteria.

i. Code of Conduct

· Projects must be **original** and free from plagiarism.
· Respect intellectual property and licensing rules for third-party tools or data. ·
Follow ethical practices in your code and application.

j. Support & Questions

If you face any issues during submission, contact the organizing team via
Catnip.hackathon@catnipit.com