

# NRI INSTITUTE OF INFORMATION SCIENCE AND TECHNOLOGY BHOPAL

## Internal Hackathon Report

**Event Name:** Internal Hackathon

**Organized By:** Department of Computer Science and Engineering (CSE), NIIST in collaboration with IIC, NRI Institute of Information Science and Technology, Bhopal

**Date:** 13th September 2024

**Venue:** S-3 Lab, CSE Department, NRI Institute of Information Science and Technology, Bhopal

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### Overview:

The Department of Computer Science and Engineering at NIIST, in association with the Institution's Innovation Council (IIC), organized an Internal Hackathon on 13th September 2024. This event served as a precursor to the Smart India Hackathon (SIH) 2024, aiming to provide students with hands-on experience in solving real-world problems using innovative approaches. It encouraged participants to hone their technical skills, collaborate in teams, and develop innovative solutions to pressing challenges in various fields, including AI, IoT, and software development.

### Objectives:

- To foster innovation and creativity among students.
- To enhance problem-solving and coding skills through real-time challenges.
- To prepare students for the national-level SIH 2024 competition.
- To promote teamwork and collaborative project development.

### Participants:

A total of 12 teams, consisting of students from different years and disciplines, participated in the hackathon. Each team was tasked with developing a solution to a real-world problem within a limited timeframe.

## **Judges:**

The event was evaluated by a panel of esteemed judges:

1. **Dr. Atul Mishra** - Expert in AI and Machine Learning
2. **Prof. Manish Singhal** - Specialist in Software Engineering
3. **Prof. Vaibhav Patel** - Senior Faculty in the CSE Department
4. **Prof. Santosh Nagar** - SPOC for SIH 2024

## **Highlights:**

- **Team Collaboration:** Students displayed excellent teamwork, brainstorming ideas, and distributing tasks to ensure efficient workflow.
- **Innovative Solutions:** Many teams came up with novel approaches, utilizing AI, IoT, and cloud technologies.
- **Learning Experience:** Participants not only improved their technical abilities but also learned about time management, problem-solving under pressure, and the importance of effective communication.

## **Results:**

At the end of the event, the judges announced the top 3 teams:

1. **Innovative Gerontological Care Solutions**
2. **To develop & implement a water quality monitoring system using IOT with real time sensor reading.**
3. **Develop a component that can be produced both by 3D printing and CNC machining, comparing the efficiency and quality of each method**

## **Conclusion:**

The Internal Hackathon proved to be a successful event, igniting the spirit of innovation and fostering creativity among the students. The judges commended the participants for their dedication and innovative ideas. This event has undoubtedly prepared the students for greater challenges at the national level in the upcoming SIH 2024 competition.

The department of CSE and IIC at NRI Institute of Information Science and Technology plans to organize more such events in the future to nurture the technical and problem-solving skills of students.

**Event Coordinators:**

Department of CSE, NIIST  
IIC, NRI Institute of Information Science and Technology, Bhopal