Dr. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES
FC-26, SHASTRI PARK, NEW DELHI.

Department of Artificial Intelligence and Machine Learning

Dated: 15/10/2024

REPORT

"Algo Arena" - Data Structure & Algorithm Context

Date of Event: 15th October 2024

Venue: Lab 2205, Block 2, 2nd Floor

Objectives: The objective of Algo Arena was to challenge participants in solving complex problems using data structures and algorithms, fostering competitive coding and critical thinking.

Activities: Algo Arena - Data Structure & Algorithm Context

Key Takeaways:

- To test participants' knowledge and problem-solving ability in data structures and algorithms.
- To foster competitive learning in a fun, high-pressure environment.
- To promote the practical application of theoretical concepts in coding.
- To provide a platform for participants to enhance their coding proficiency and critical thinking skills.

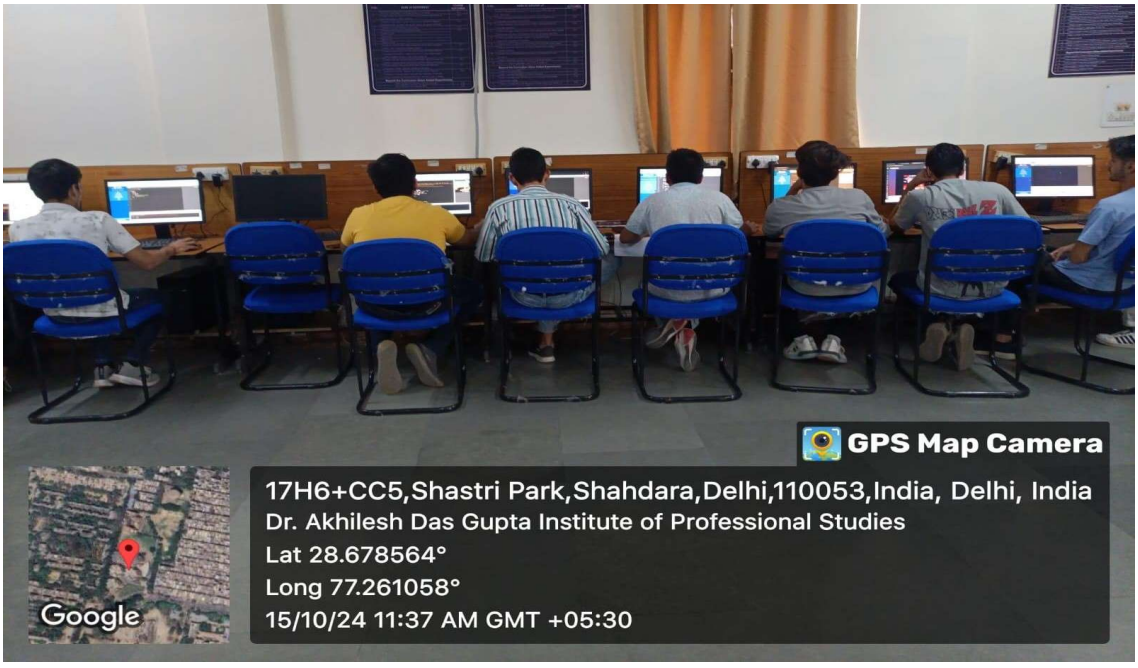
Description: The competition followed a structured and well-organized format, ensuring a fair and challenging experience for all participants.

- Problem Sets: Participants were presented with a series of algorithmic problems. These problems required the application of various data structures (such as arrays, linked lists, trees, graphs) and algorithms (sorting, searching, dynamic programming, etc.).
- Difficulty Levels: The problems were divided into three categories:
  - Easy: Focused on basic algorithms and common data structures.
  - Medium: Required more complex problem-solving and optimization.
  - Hard: Involved advanced algorithms and high-level programming challenges.
- Time Limit: Participants were given a fixed duration of 30min to solve 3 problems.
- Judging Criteria: Solutions were evaluated based on:
  - Correctness: Whether the solution solves the problem correctly in all given test cases.
  - Efficiency: How well the solution performs in terms of time and space complexity.
  - Code Quality: Cleanliness, readability, and use of best practices in coding.
- Platform and Tools: The competition was conducted on an online coding platform, allowing participants to code in their preferred languages - C++ and JAVA.

Outcomes: 56 students along with 2 faculty members benefited from the event.

Beneficiaries: AIML students.

Photographs of event with title: Algo Arena - Data Structure & Algorithm Context

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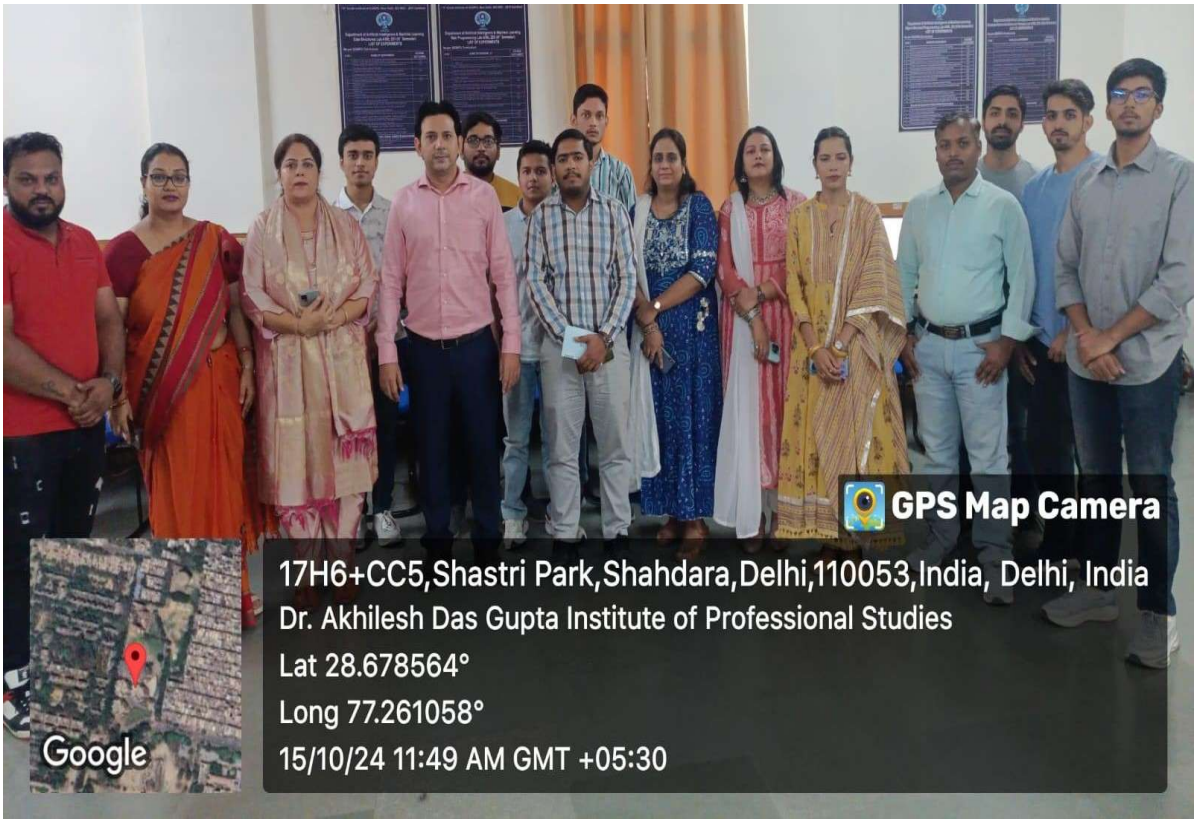
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Ms. Sadaf Fatima
Ms. Shuchi Sharma
Event Organizer

Prof. (Dr.) Ankit Verma
Head of Department