



Learn Beyond

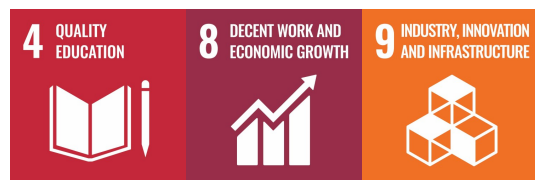
KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600**Web:** kpriet.ac.in**Social:** kpriet.ac.in/social**AM001****NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**EXPERT TALK SERIES ON FUZZY SYSTEMS AND GENETIC ALGORITHMS**

Event No	AM001
Organizing Department	Artificial Intelligence and Machine Learning
Associate Dept. NSC	Artificial Intelligence and Machine Learning
Date	15/09/2023 to 17/10/2023 (33 Days)
Time	07:01 PM to 08:01 PM
Event Type	Expert Talk
Event Level	Dept. Level
Meeting Medium	
Meeting Link	https://us06web.zoom.us/j/86513591281?pwd=jk2rwH225GcKEH2ANm27awmVGkUAa2.1
Total Participants	14
Faculty - Internal	1
Students - Internal	13

Related SDG**Resource Persons**

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Shreyanth S	Data Engineer (Lead)	Indium Software (India) Pvt Ltd	shreyanth0810@gmail.com	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Kothai G	Coordinator
2	Karthikeyan S	Convenor

Outcome

The students were able to learn how fuzzy logic and genetic algorithm techniques are used in various applications. The expert provided some real-world applications of fuzzy logic and genetic algorithms. This helps the students to see the practical relevance of these techniques in areas such as control systems, robotics, finance, healthcare. The students were able to understand the problem-solving process, from defining fuzzy rules and variables to setting up genetic algorithms for optimization. Students were able to see practical demonstrations, simulations, and hands-on exercises related to fuzzy logic and genetic algorithms.

Event Summary

The expert talk on 'Fuzzy Logic and Genetic Algorithms' provides valuable insights into these advanced computational techniques for students. The first part of the talk focused on fuzzy logic. The expert explained the basic concepts, including linguistic variables, membership functions, and fuzzy rules. Real-world applications of fuzzy logic were also presented to illustrate its significance. In the second segment, the expert delved into genetic algorithms. Students were introduced to the principles of evolutionary algorithms, including selection, crossover, mutation, and population evolution. The expert showcased examples of optimization problems that can be solved using Genetic Algorithms. The expert presented case studies and practical applications where fuzzy logic and genetic algorithms are used, including control systems, finance, healthcare, and robotics. These examples demonstrated the wide-reaching implications of the discussed techniques. The students gained a deeper understanding of fuzzy logic and genetic algorithms, with a focus on practical applications. Students were presented with concrete and practical examples illustrating how fuzzy logic can be ingeniously employed to define fitness functions within genetic algorithms, solving complex real-world problems with agility and precision.



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DEPARTMENT CSE (AIML)
Organizes
Industry Expert Talk Series
On

Fuzzy Systems and Genetic Algorithm

🕒 07.00PM - 08.00 PM (Daily)
📅 15 Sep 2023 to 17 Oct 2023

Microsoft Teams
Meeting ID: <https://bitly.com/kprtaimtalk08>



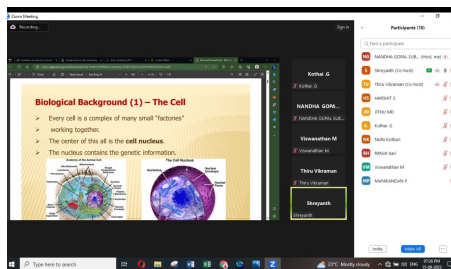
Guest Speaker
Mr. Shreyanth S,
Data Engineer & Analyst
Indium Software,
Chennai

CONVENOR
Dr. Karthikeyan S

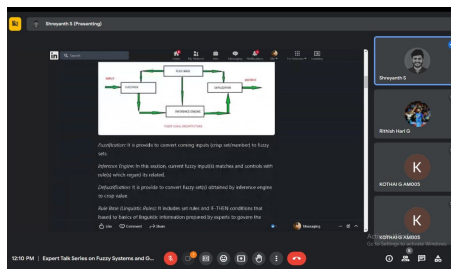
COORDINATOR
Ms. Kothai G

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