

Technical Activities Report 2021  
IEEE Signal Processing Society Student Chapter  
MNIT Jaipur, India

## Lecture 3: Big Data Streaming Analytics: Heuristic Approach



Speaker: Dr. Urvashi Prakash Shukla  
Assistant Professor

Department of Computer Science, Banasthali Vidyapith  
Date:7-10-2021, Time 5-6 p.m

The third lecture under IEEE Signal processing society chapter MNIT organised a webinar on Big Data Streaming Heuristic Approach. This lecture was also as a research seminar series 2021 under IEEE student MNIT. The talk is delivered by Dr. Urvashi Prakash Shukla, Assistant Professor, Dept. of Computer Science Banasathali Vidyapith .Her area of research include: biomedical signal processing , Machine learning, Artificial intelligence , Image analysis and Processing

**Details of the talk :** The talk covers the basic analytics incorporated for the steam data. Various algorithms (BRICH and Clustream) used in mining streaming heterogeneous data will be discussed. The role of heuristic algorithm in streaming data along with the recent open ware tools available in market to understand the basics of stream data.

The lecture was attended by **81 participants (IEEE members attended=13 and non IEEE members attended=68).**

Online platform: Google Meet

Some of the Photos of the event is as follows:

**IEEE Signal Processing Society**

**IEEE**

**Webinar on BIGDATA STREAMING ANALYTICS: HEURISTIC APPROACH**

**Date: - 7/10/2021**  
**Thursday**  
**Timing :- 5-6 PM**

**Registration Link :-**  
<https://forms.gle/MLCCbDQ71b3oaPV46>

**Resource Person:**  
**Dr. Urvashi Prakash Shukla**  
 Assistant Professor  
 Department of Computer Science  
 Banasthali Vidyapeeth

**Dr. Amit Mohesh Joshi**  
 Faculty Advisor,  
 IEEE Signal Processing  
 Student Chapter, MNIT

**Dr. Sarthak Singhal**  
 Faculty Advisor,  
 IEEE Student Branch  
 MNIT

**Deepshikha Leelhi**  
 Chair,  
 IEEE Student Branch  
 MNIT

**Sareendra Saini**  
 Vice Chair,  
 IEEE Student Branch  
 MNIT

e- certificates will be awarded to all the participants

Dr Urvashi Prakash is presenting

**LECTURE SERIES ON BIG DATA STREAMING ANALYTICS: HEURISTIC APPROACH**

Dr. Urvashi Prakash Shukla  
 Assistant Professor  
 Department of Computer Science  
 Banasthali Vidyapeeth

People: Dr. Urvashi Prakash, JTEJOKIA PRANAL, LOKANATH CHANDAN, Sarthak Singhal, Anil Joshi, Nisha Mittal, Kunal Mehta, 28 others, You

Dr Urvashi Prakash is presenting

**Types of Heuristic Approaches**

Population based	Evolutionary	Evolutionary
Genetic Algorithms	Genetic Algorithms	Genetic Algorithms
Particle Swarm Optimization	Particle Swarm Optimization	Particle Swarm Optimization
Ant Colony Optimization	Ant Colony Optimization	Ant Colony Optimization
Tabu Search	Tabu Search	Tabu Search
Simulated Annealing	Simulated Annealing	Simulated Annealing
Genetic Programming	Genetic Programming	Genetic Programming
Evolutionary Programming	Evolutionary Programming	Evolutionary Programming
Evolutionary Strategy	Evolutionary Strategy	Evolutionary Strategy
Genetic Algorithms	Genetic Algorithms	Genetic Algorithms
Particle Swarm Optimization	Particle Swarm Optimization	Particle Swarm Optimization
Ant Colony Optimization	Ant Colony Optimization	Ant Colony Optimization
Tabu Search	Tabu Search	Tabu Search
Simulated Annealing	Simulated Annealing	Simulated Annealing
Genetic Programming	Genetic Programming	Genetic Programming
Evolutionary Programming	Evolutionary Programming	Evolutionary Programming
Evolutionary Strategy	Evolutionary Strategy	Evolutionary Strategy

People: Dr Urvashi Prakash, Sarthak Singhal, Anil Joshi, JALALI NAYAN, Nisha Mittal, Kunal Mehta, Dr. office, You

Dr Urvashi Prakash is presenting

**Population Initialization**

Population  
 Initialization  
 Mutation  
 Selection  
 Crossover  
 Evaluation  
 Termination

People: Dr Urvashi Prakash, JTEJOKIA PRANAL, LOKANATH CHANDAN, Sarthak Singhal, Anil Joshi, Nisha Mittal, Kunal Mehta, 28 others, You

Dr Urvashi Prakash is presenting

People: Dr Urvashi Prakash, Sarthak Singhal, Anil Joshi, JALALI NAYAN, Nisha Mittal, Kunal Mehta, Dr. office, You