

Report on

## IEEE Technical Talk Series 2021

Expert: Dr. R. Logeswaran

June 12<sup>th</sup> 2021

Title: Data Science and Big Data: From introduction to application



IEEE Signal Processing Society  
Gujarat Section

- CONTENTS

1. Poster for the talk
2. Expert Profile
3. Glimpses of the talk
4. Memento Format
5. Video Recording Consent Form Format
6. Number of Participants

- POSTER FOR THE TALK



IEEE Signal Processing Society Gujarat Chapter  
in collaboration with IEEE GCET SB  
presents  
Expert Talk Series

*Big data and data science are inseparable due to unprecedented growth of information generated worldwide and on the internet where different methods, algorithms, and complex programming techniques under data science are combined and applied to perform intelligent analysis in large volumes of data.*

**Data science and Big data: From Introduction to Applications**

June 12 2021 | 10 AM IST  
Scan to Register



(WebEx link will be sent to registered participants)



**Dr. R Logeswaran**  
Professor and Dean of  
Graduate Studies at Asia  
Pacific University (APU),  
Malaysia



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- EXPERT PROFILE



Dr. R. Logeswaran

Head of Asia Pacific Centre for Analytics (APCA)

Professor Dr. R. Logeswaran is the head of the Asia Pacific Center for Analytics (ACPA) and full Professor of Computing and Engineering at the Asia Pacific University of Technology and Innovation (APU), Kuala Lumpur, Malaysia, where he also served as the Dean of Graduate Studies and chaired the university's Research Committee. Prior to that, he was the Dean of the Faculty of Engineering, Science and Technology at Nilai University and before that, the Acting Dean of Engineering and Deputy Dean of Postgraduate Studies at Multimedia University, and then Adjunct Professor.

GLIMPSES OF THE TALK

The screenshot shows a Cisco Webex meeting interface. The main content is a presentation slide with the following text:

**DATA SCIENCE & BIG DATA: From Introduction to Applications**

**PROF. DR. R. LOGESWARAN**  
 Head, Asia Pacific Centre for Analytics,  
 Asia Pacific University of Technology & Innovation, Malaysia  
 Chair, IEEE Signal Processing Society Malaysia Chapter  
 Advisor, APU IEEE Student Branch  
 Advisor, Asia Pacific Analytics Club

Logos for IEEE Signal Processing Society (Malaysia Chapter), IEEE APU Student Branch, APAC, and A.P.U. are visible at the bottom of the slide. The meeting interface shows a list of participants on the right and a toolbar at the bottom.

The screenshot shows a Cisco Webex meeting interface. The main content is a presentation slide titled "Knowledge Discovery Process" with a flowchart illustrating the KDD process:

**Knowledge Discovery Process**

- Original Data (Database icon)
- Selection (Arrow pointing to Target Data)
- Target Data (Cylinder icon)
- Preprocessing (Arrow pointing to Preprocessed Data)
- Preprocessed Data (Cylinder icon)
- Transformation (Arrow pointing to Transformed Data)
- Transformed Data (Cylinder icon)
- Data Mining (Arrow pointing to Patterns)
- Patterns (Bar chart icon)
- Interpretation (Arrow pointing to Knowledge)
- Knowledge (Star icon)

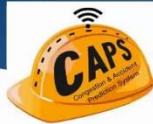
The flowchart is labeled "- The KDD Process". The meeting interface shows a list of participants on the right and a toolbar at the bottom.




Cisco Webex Meetings Meeting Info Hide Menu Bar

File Edit Share View Audio & Video Participant Meeting Help


Richa Mishra Me Haripriya Chivukula Cohost Chirag Paunwala Cohost Arpan Desai Host 20012012037\_Kurvesh P...



**BIG App Challenge 2015**



ANALYTICS



A.P.U.

## Flood and Floo Congestion and Accident Prediction (CAPS)

- Predicting road congestions on designated journey.
- Predicting possible accidents at identified location
  - By time
  - By weather
  - By event
- Proposing alternative routes for safe and fast journey

Project considered for full fledge development – Client: DBKL

Participants (135)

Search

- RM Richa Mishra Me
- AD Arpan Desai Host
- PL Prof. Dr. R. Logeswaran Cohost
- NP nakrani priyan
- CP Chirag Paunwala Cohost
- GS Giriraj Shah Cohost
- HC Haripriya Chivukula Cohost
- R rahul2777 Cohost
- [meetingURL:https://aicteindia.web...
- 2P 20012012037\_Kurvesh Patel
- 2P 20BEC137 YASH PUROHIT
- AS Aastha Solanki
- AS Aayush Shah
- AF Abhay faldu

Unmute Start video Share

Type here to search 10:51 12-06-2021

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Richa Mishra Me Prof. Dr. R. Logeswaran Cohost Chirag Paunwala Cohost Arpan Desai Host 20012012037\_Kurvesh P...

Job Role	Filled (%)	Unfilled (%)
Data Scientist	82	18
Big Data Visualizer	23	77
Big Data Research Analyst	31	69
Big Data Engineer	44	56
Big Data Architect	43	57
Big Data Analyst	50	50

Vacancy/Filled(%)

■ Filled ■ Unfilled

Big Data Jobs not filled due to lack of Skilled Professionals

2/3 of Big Data skill requirements are not met due to lack of skilled professionals.

Only 1/3 of the Big Data skill requirements are met.

Participants (140)

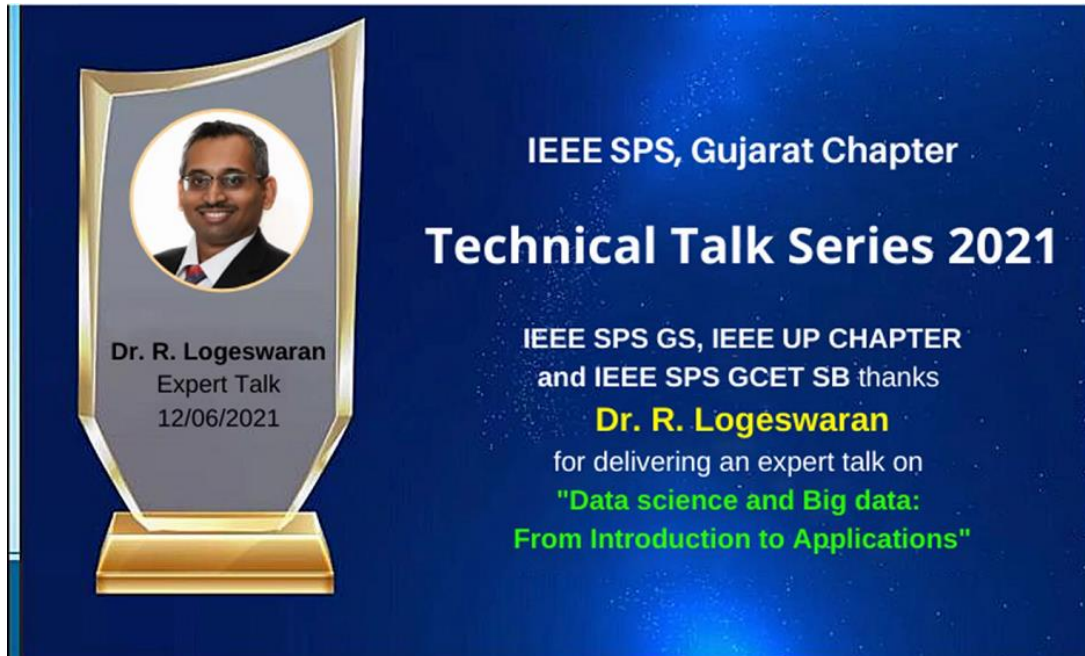
Search

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- AS Aastha Solanki
- AS Aayush Shah
- AF Abhay Faldu

Unmute Start video Share

Type here to search 11:35 12-06-2021

- MOMENTO FORMAT



- VIDEO RECORDING CONSENT FORMAT



**Video Recording Consent and Release Form**

I hereby permit the IEEE Signal Processing Society, Gujarat Section to record my presentation in connection with my participation in the event mentioned below and (check all that apply):

- distribute it to the event attendees as a free benefit.
- post it on the event's website and the IEEE Signal Processing Society, Gujarat Section YouTube Channel provided that the presentation will be deleted from the Channel within 30 days of my request.

By signing below,

- I agree to the terms stated above and hereby certify that I am 18 years of age or older.

 11<sup>th</sup> June 2021  
Signature/Date

Prof. Dr. R Logeswaran  
Print Name

Data Science and Big Data: From Introduction to Applications  
Talk Title

12<sup>th</sup> June 2021  
Date of the talk

Expert Talk  
Name of the event

WebEx/Online  
Name of the location/venue

- NUMBER OF PARTICIPANTS

Total: 189

IEEE Members: 45

Non IEEE Members: 144

Report Prepared by: Richa Mishra

Vice-Chairperson | IEEE SPS GCET Chapter