

REPORT
on
Two-day National Level Webinar
Conducted by
Department of Computer Science & IQAC, Maheshtala College.

Title : Recent Trends in Computer Science – I

Date : 29th and 30th July, 2020

Preamble :

A Two day national level webinar on Recent Trends in Computer Science-I has been conducted on 29th and 30th July, 2020, by Computer Science department of Maheshtala College with the kind support of the Principal, Dr. Rumpa Das and IQAC, Maheshtala College using Google Meet.

The objective of such webinar is to provide a little bit of knowledge on recent studies in the field of computer science among the students and faculty members of different colleges in India during this COVID pandemic situation.

Inaugural Speech :

Dr. Rumpa Das, Principal, Maheshtala College.

Keynote address :

Dr. Ujjwal Bhattacharya, Professor, Indian Statistical Institute, Kolkata.

Day 1-Technical Session I :

Dr. Sasanka Roy, Associate Professor, Indian Statistical Institute, Kolkata.

Topic : Unsupervised Learning (Clustering): An Introduction.

Day 1-Technical Session II :

Dr. Soumen Nandi, Professor, IEM Kolkata.

Topic : Randomized algorithm : an Overview.

Day 2-Technical Session I :

Prof. Bibek Ranjan Ghosh, Assistant Professor, Ramkrishna Mission Residential College, Narendrapur.

Topic : Image Steganography.

Day 2-Technical Session II :

Dr. Avijit Mustafi, Associate Professor, BIT-Mesra, Ranchi.

Topic : Identification of features for Machine Learning based Image Steganography Attack.

Description :

The webinar was started at 10 a.m. with the encouraging inaugural speech by The principal of Maheshtala College, Dr. Rumpa Das. She welcomed all the Speakers and all the participants on behalf of Maheshtala College. She also described that, when all the Institutions throughout the country were closed due to COVID pandemic situation, so this type of knowledge sharing can be done through online and this is necessary also, because, study could not be locked down.

After the inaugural speech, Dr. Ujjwal Bhattacharya, Professor, ISI, Kolkata, delivered his valuable keynote address. Then Dr. Sasanka Roy, Associate Professor, ISI, Kolkata started the technical session-I on Unsupervised Learning (Clustering): An Introduction. After Dr. Roy's valuable discussion, Dr. Soumen Nandi, Professor, IEM Kolkata continued technical session-II on Randomized algorithm: an Overview. Participants cleared their doubts during the interactive sessions. Finally, vote of thanks was given by Prof. Satyajit De, HOD, Dept. of Computer Science, Maheshtala College. The first day discussion ended at 1 p.m.

The second day was also inaugurated by Dr. Rumpa Das, Principal, Maheshtala College. Then, technical session-I was started by Prof. Bibek Ranjan Ghosh, Assistant Professor, Ramkrishna Mission Residential College, Narendrapur, on Image Steganography. After him, technical session-II was continued by Dr. Avijit Mustafi, Associate Professor, BIT-Mesra, Ranchi, on Identification of features for Machine Learning based Image Steganography Attack. All the sessions were interactive and the speakers answered many queries of the participants. Finally, Dr. Suchandra Bhattacharya, IQAC Co-ordinator, Maheshtala College proposed vote of thanks.

The entire programme was co-ordinated with the immense support of the Principal Madam, IQAC co-ordinator madam, faculty members of Computer Science department of Maheshtala College.

Participants : 81

Among the participants, 1.2% were Principal/Professor and Associate Professor, 23.5% were Assistant Professor, 17.3% were SACT, 58% were students from different colleges. The list of the participants along with their email addresses is attached below:

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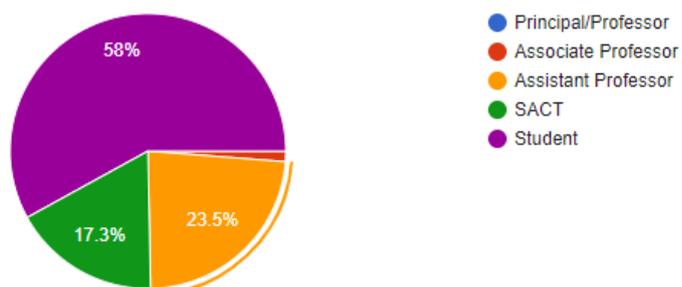
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Designation

81 responses

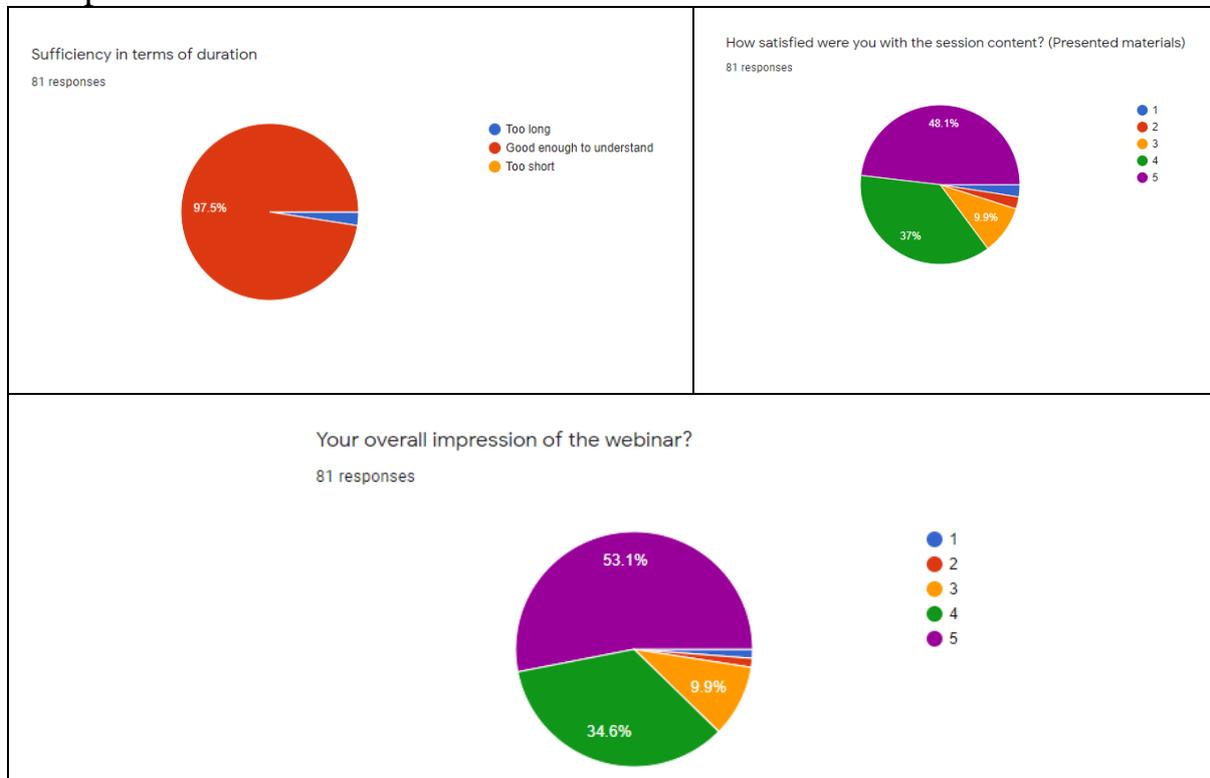


Feedback Analysis:

All the participants expressed their feedback using the google form provided by the Computer Science Department of Maheshtala College.

1. 97.5% participants expressed that the webinar was good enough to understand.
2. 2.5% of participants stated that the webinar was too long.
3. 48.1% participants were very much satisfied.
4. 37% were less satisfied.
5. 14.9% were not satisfied.
6. 53.1% were very much impressed.
7. 34.6% were less impressed.
8. 12.3% were not impressed.

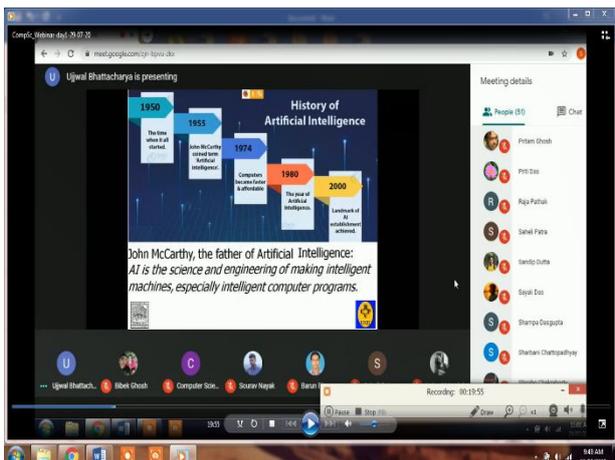
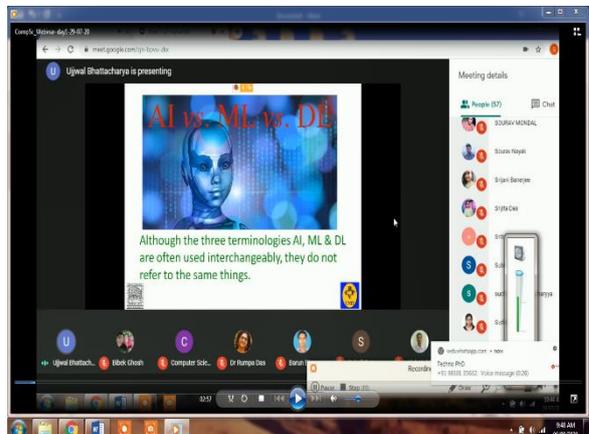
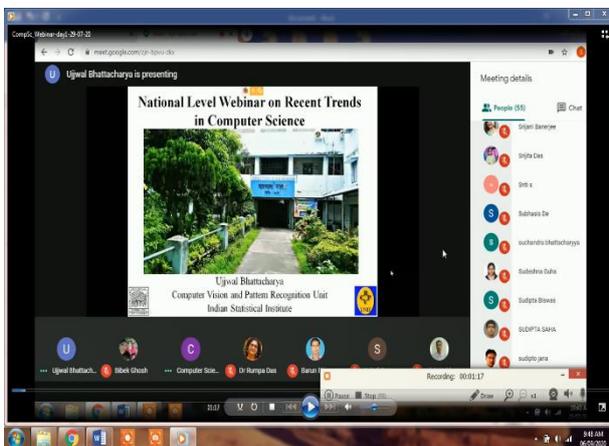
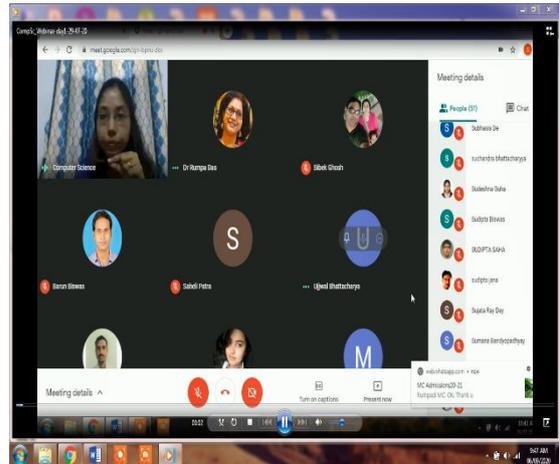
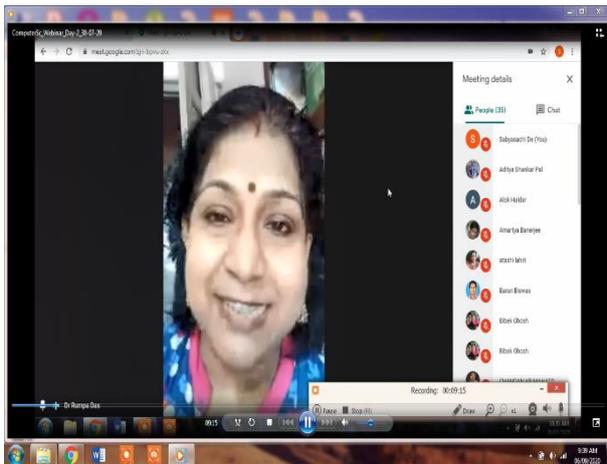
The pie charts are as follows –



Future Perspective :

The Computer Science department, Maheshtala College is looking forward to organize more webinars on recent trends in computer technology.

Some Glimpses of the Webinar :



CompSc_Miscar-day2_20-07-20

Sasanka Roy is presenting

Connectivity based clustering (Merge Clusters)

- Let C_1, C_2, \dots, C_k be the clusters
- $d(p, q)$ be the distance between two points p and q
- $d_{ij} = \text{minimum}(d(p, q) \in C_i, q \in C_j)$

$d_{12} = 7, d_{13} = 8, d_{23} = 5$

Let $d = \text{minimum}(d_{ij}) = d_{23}$

Hence $d = d_{23}$

Meeting details

People (50)

Chat (1)

9:52 AM 20/07/2020

CompSc_Miscar-day2_20-07-20

SOURMEN NANDI is presenting

Randomized Algorithm: An Overview

Dr. Soumen Nandi
Institute of Engineering & Management
Kolkata

Dept. of Computer Science & IQAC,
Maheshtala College, Kolkata
29/07/2020

Meeting details

People (47)

Chat (7)

9:52 AM 20/07/2020

CompSc_Miscar-day2_20-07-20

SOURMEN NANDI is presenting

Example: Monte Carlo

$X = X_1, X_2, \dots, X_n$ $Y = Y_1, Y_2, \dots, Y_n$

India USA

for instance,
 $X = 1100101; Y = 1101101$

Meeting details

People (44)

Chat (5)

9:54 AM 20/07/2020

CompSc_Miscar_20-07-20

Bibek Ghosh is presenting

IMAGE STEGANOGRAPHY

Meeting details

People (30)

Chat

9:56 AM 20/07/2020

CompSc_Miscar_20-07-20

Bibek Ghosh is presenting

Applications of Steganography

1. Digital Watermark, Copyright Protection

A digital watermark is a type of marker covertly embedded in a noise-tolerant signal such as audio or image data. Used for document authentication.

Meeting details

People (51)

Chat

9:56 AM 20/07/2020

CompSc_Miscar_20-07-20

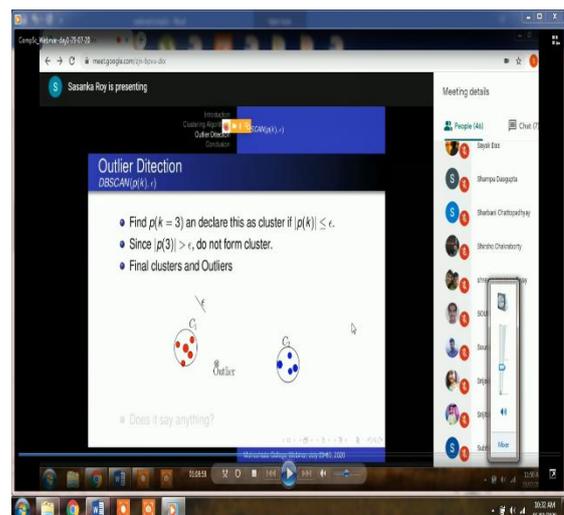
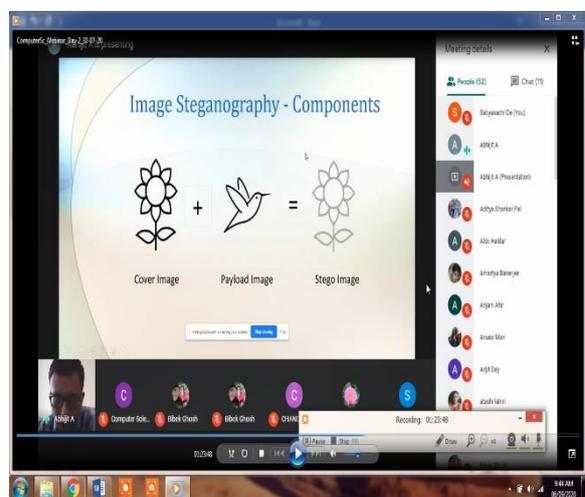
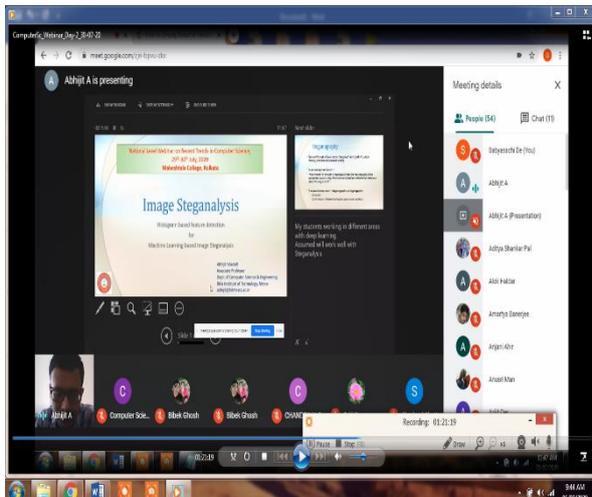
Abhijit A is presenting

Meeting details

People (54)

Chat (11)

9:56 AM 20/07/2020



Report Submitted by –

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