



Centre of Excellence in Healthcare Technologies and Informatics (CEHTI)

Department of Biotechnology & Bioinformatics

Jaypee University of Information Technology (JUIT)

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<http://www.juit.ac.in/cehti/CEHTI.php>

REPORT ON THE WEBINAR

Date & Time: June 12, 2023 (Monday), 11:00 AM

Speaker: Prof. Tiratha Raj Singh

Topic: “*Application of Bioinformatics in healthcare*”

Prof. Tiratha Raj Singh delivered a webinar on the topic “*Application of Bioinformatics in healthcare*” on 12-06-2023 (Monday) between 11:00 AM to 12:00 Noon through the Google meet platform. The event was coordinated by Dr. Raj Kumar, Assistant Professor, Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology (JUIT), Waknaghat. Technical support was provided by Mrs. Somlata Sharma, Lab Engineer, Bioinformatics Lab, Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology (JUIT). Prof. Tiratha Raj Singh discussed about the role of Bioinformatics in medicine and healthcare sectors. He also told about the Computer-based clinical support and decision systems and their applications. He mentioned about the technologies associated with the CDSS, OMICS, System biology and Databases and their general perception, scope, and social relevance in biomedical sciences. He shared his research work that his students are doing in his Bioinformatics, Computational Genomics and Systems Biology laboratory and in the CEHTI at JUIT. The webinar was aimed towards understanding the Bioinformatics and its clinical relating contents. The contribution of these subjects towards medical science, data science, and clinical Science was specifically highlighted. The presentation



was pictorial and interactive. A total of 113 participants joined this webinar. Participants gave positive feedback by posting several messages in the chat box. Some interesting queries were asked specially by the undergraduate students which were answered by Prof. Singh after the talk. Introduction of the session and vote of thanks at the end were proposed by Ms. Nadia Ahmed, a PhD scholar in the department.



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शिक्षा व सेवा
JAIPRAKASH
SEWA SANSTHAN

Department of Biotechnology & Bioinformatics

Scheduled Date:
12-06-2023 (Mon),
11:00 am

Webinar on
Application of Bioinformatics in
healthcare

Registration link: <https://forms.gle/Af5Bcuqs7HwbrJxs5>
Contact No.: 7876462493



Prof. Tiratha Raj Singh





The screenshot shows a Zoom meeting interface. The main area displays a grid of participants: Atul Sharma (green circle with 'A'), Guru Prasad (circular photo), Sunil Datt Sharma (red circle with 'S'), Dr Arti Ghabru (circular photo), Tiratha Raj Singh (circular photo), Satyendra Prakash (circular photo), Nath 1.0 can now join this meeting (circular photo), Vikas Baghel (circular photo), 49 others (circular icons), and You (circular icon). A 'People' sidebar on the right shows 58 contributors, including somlata sharma (You) as the meeting host, A Ghosal, Aditya Singh, and Ajay Biban. The bottom toolbar includes icons for mute, video, chat, reactions, share screen, hand raise, and end call.

The screenshot shows a Zoom meeting interface during a presentation. The main area displays a slide titled "Application of CDSS" with the following content:

Application of CDSS

- There are numerous clinical tasks that a CDSS can perform or assist in. Some of the common applications of a CDSS are:
 - ❖ **Alerts and Reminders:** A CDSS will alert the doctor or physician when certain inputted data is alarming or a potential risk to the patient.
 - ❖ **Diagnostic Assistance:** Patient data can be compared to the system knowledge base in order to present possible diagnoses.
 - ❖ **Prescribing Decision Support System (PDSS)** can check for drug-to-drug interactions, dosage errors, and drug contraindications such as patient allergies.
 - ❖ CDSSs can assist in the location and retrieval of appropriate and accurate clinical data which may be used for diagnosis or treatment planning.
 - ❖ **Image Recognition and Interpretation:** Expert systems are now capable of interpreting clinical images ranging from simple X-rays to MRIs or CT scans.

The 'People' sidebar on the right shows 73 contributors, including somlata sharma (You) as the meeting host, A Ghosal, Aditya Bhatia, and Aditya Bhatt. The bottom toolbar includes icons for mute, video, chat, reactions, share screen, hand raise, and end call.



Tiratha Raj Singh is presenting

Application of CDSS

Tiratha Raj Singh

Avantika Dhiman

Jyoti Otageri

Guru Prasad

Sunil Datt Sharma

Dr Arti Ghabru

65 others

You

People

+ Add people

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IN MEETING

Contributors 73

- somlata sharma (You) Meeting host
- A Ghosal
- Aditya Bhatia
- Aditya Bhatt

kqe-chfz-jhf

Prof. Nirmal Kumar Lohiya

Ajay Biban

Tiratha Raj Singh

Pavan Singh

Avantika Dhiman

Jyoti Otageri

Guru Prasad

62 others

Multiple people want to join this call

View

kqe-chfz-jhf

Lenovo Device Experience
