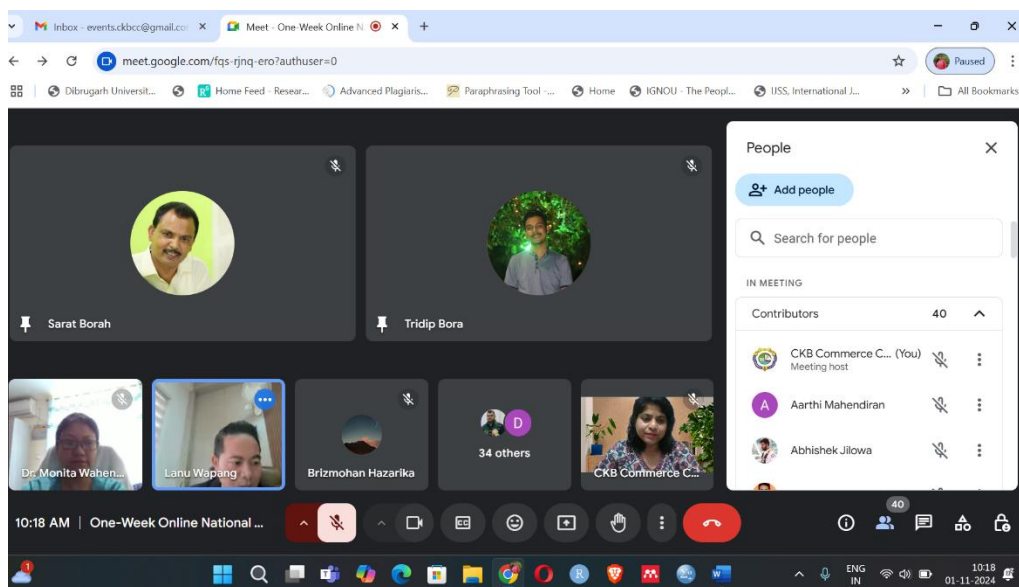


# Report on One-week Online National Workshop on Artificial Intelligence Using R Programming

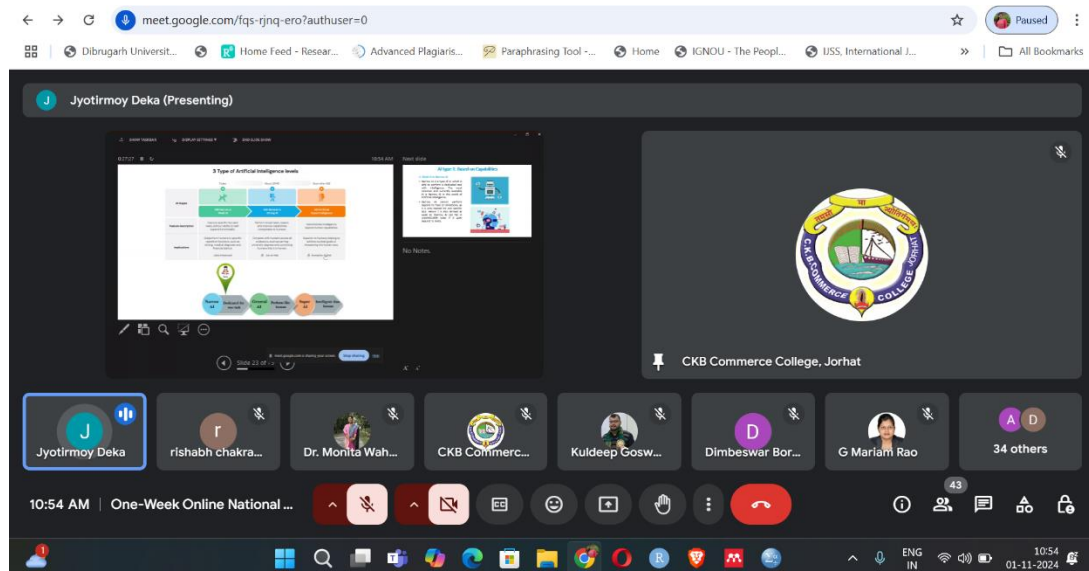
Organised by  
*Department of Statistics and Mathematics,  
Department of Banking, CKB Commerce College, Jorhat*

In Collaboration with  
*NIELIT Jorhat Extension Centre of Guwahati*

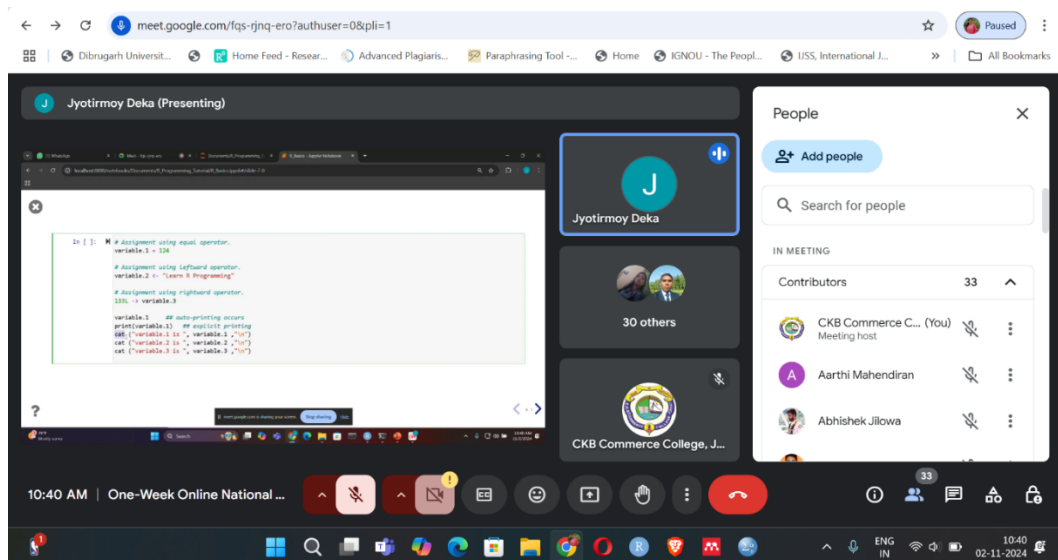
A one-week online National Workshop on “Artificial Intelligence Using R Programming” was organised by the Departments of Statistics & Mathematics and Banking, CKB Commerce College, Jorhat in collaboration with NIELIT Jorhat Extension Centre of Guwahati from 01.11.2024 to 07.11.2024. Artificial Intelligence (AI) plays an increasingly significant role in our daily lives, enhancing convenience, personalization, and efficiency. The workshop offered a robust agenda, covering everything from introductory AI concepts to advanced machine learning techniques. The workshop aimed at enhancing skills through an exploration of fundamental ideas relating to Artificial Intelligence (AI) and utilisation of R programming. It provided a solid foundation for beginners in AI and R for further exploration in the field. Under the aegis of CKB Commerce College, the Department of Statistics & Mathematics and the Department of Banking took the initiative of organising a week-long online workshop on the use of R Programming in data analysis. The main objective of the workshop was to provide a hands-on learning experience to researchers, academicians and students regarding the use of the software.



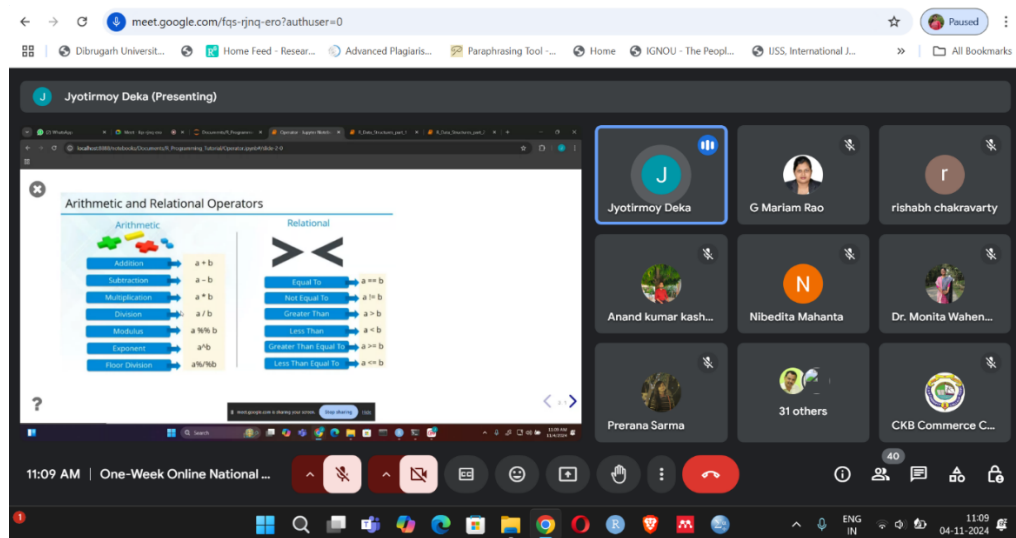
The workshop was coordinated by Dr. Sulaxana Bharali, Assistant Professor, Department of Statistics and Mathematics, Dr. Monita Wahengbam, Centre In-charge, NIELIT Jorhat and Dr. Rana Sharma, Administrative Officer, NIELIT Jorhat with Dr. Ananya Sarmah, Assistant Professor, Department of Banking and Mr. Manash Pratim Goswami, Assistant Professor, Department of Banking acting as the Organising Secretaries. Dr. Breez Mohan Hazarika, Principal, CKB Commerce College was the patron for the workshop. Dr. Sarat Borah, Vice-principal, CKB Commerce College has been the Chairperson and Mr. Rupam Sarmah, Associate Professor, Department of Statistics and Mathematics and Dr. Raju Roy, Associate Professor, Department of Banking has been the Chief Advisor and Advisor respectively. There were around 60 educators, researchers, and students from different parts of India.

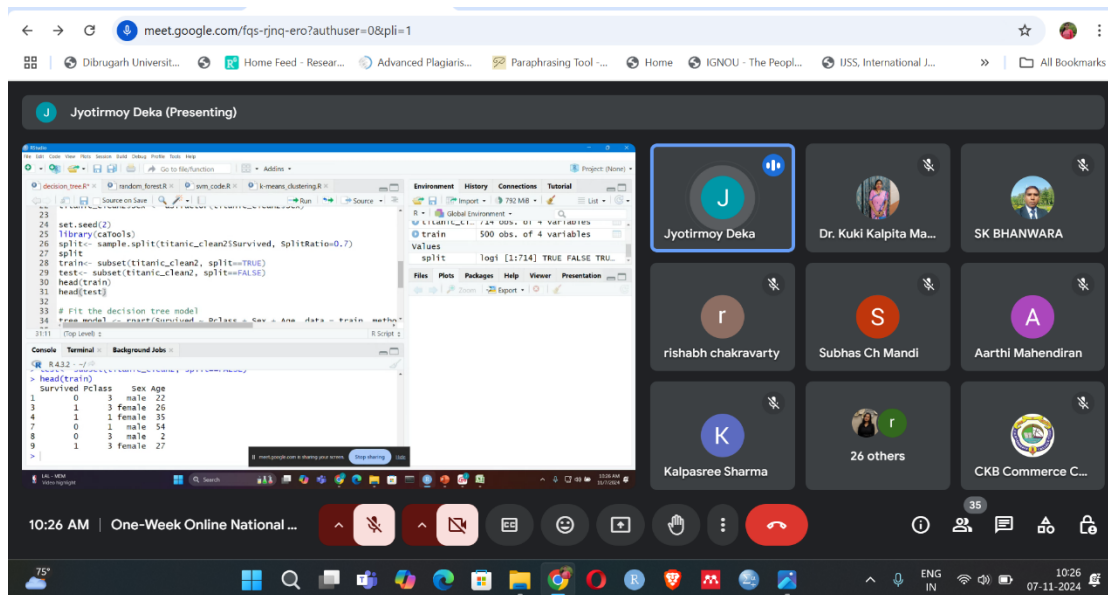


The Resource Person for the workshop was Jyotirmoy Deka, Senior IT Faculty, NIELIT Jorhat Extension Centre of Guwahati. The inaugural session started with a welcome address from Dr. Breez Mohan Hazarika, Principal, CKB Commerce College. The inaugural address was delivered by Lanuwapang L, Director, NIELIT. Mr. Lanuwapang emphasised on the importance of such workshops which focused on the development of research and made the participants aware about the activities and courses the NIELIT is being providing. The inaugural session ended with a vote of thanks by Dr. Monita Wahengbam.



After inaugural session, the technical session for Day 1 started with Jyotirmoy Deka taking up the session. The session provided a comprehensive overview of AI, exploring how it has transformed from a collection of theoretical concepts into a powerful, mainstream technology with extensive applications. On Day 2, Mr. Deka introduced the participants to R programming, beginning with R's development and its widespread use in data analysis. The session expanded on learning to work with text data and writing functions and also understanding file input and output in R. Participants learned about data visualization techniques crucial for data interpretation on Day 3. On Day 4, he discussed about machine learning concepts and delved into various machine learning algorithms. On Day 5, Mr. Deka focused on implementing algorithms in R that were discussed on the previous day and additional algorithms were covered such as K-Nearest Neighbors (KNN), K-means Clustering, Support Vector Machine (SVM). Advanced analytical techniques in R were discussed on Day 6.





The workshop ended with a valedictory session with feedbacks from the participants. Many participants pointed out that the workshop was a great learning experience and it was very helpful for them. Mr. Deka also extended his gratitude to the organising committee for the successful organisation of the workshop. The workshop ended with a vote of thanks by Dr. Sulaxana Bharali.

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