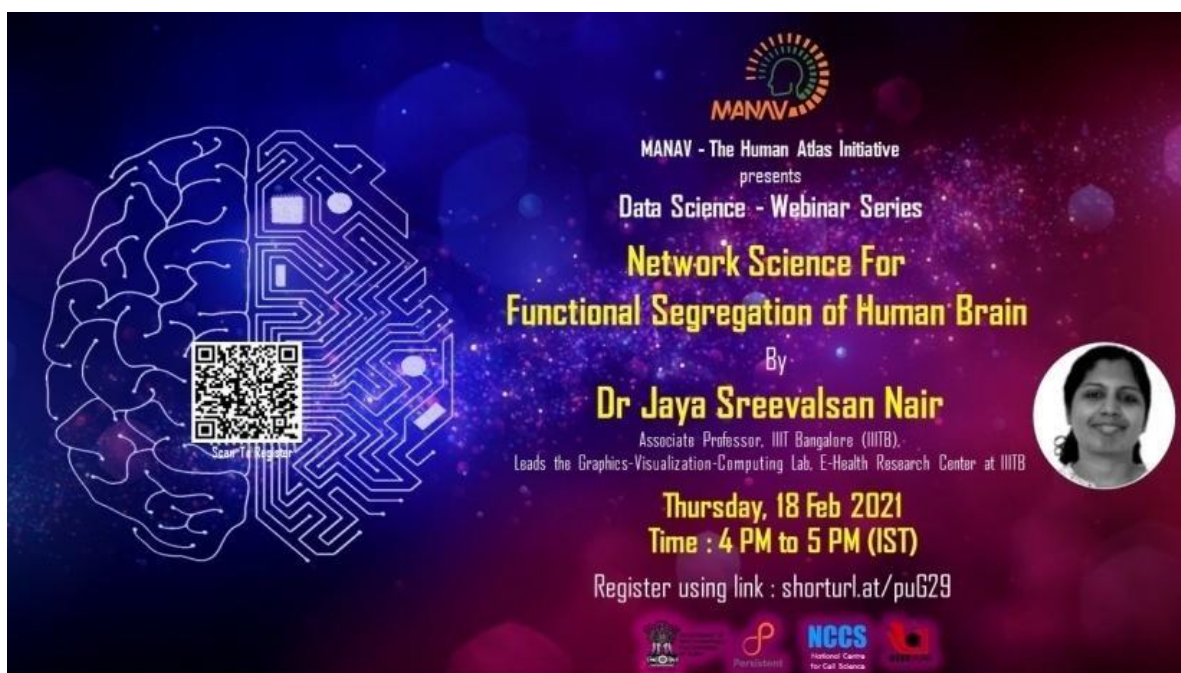


Webinar on how data science can help understand human brain better

New Delhi, March 04: Various methods have been used to study the structure of the human brain, and to learn how it functions. Network science is one such method, which entails constructing a complex network with different non-overlapping regions of interest (ROIs) in the brain. Once this is done, tools of data science can then be applied to find patterns in the brain. It is now known that the different functions of the brain correspond to groups of ROIs called ‘modules’, which can be identified using networks. In addition to the modular behavior, the brain also exhibits hierarchical organization of these modules.



MANAV - The Human Atlas Initiative
presents
Data Science - Webinar Series
**Network Science For
Functional Segregation of Human Brain**
By
Dr. Jaya Sreevalsan Nair
Associate Professor, IIT Bangalore (IIITB),
Leads the Graphics-Visualization-Computing Lab, E-Health Research Center at IIITB
Thursday, 18 Feb 2021
Time : 4 PM to 5 PM (IST)
Register using link : shorturl.at/puG29

To introduce this intriguing topic to students and the general public, a webinar on ‘Network Science for Functional Segregation of Human Brain’ was organized by the ‘Manav: Human Atlas Initiative’ on Thursday, 18 February 2021. This webinar was presented by Dr. Jaya Sreevalsan Nair. Dr. Nair is Associate Professor at IIIT Bangalore (IIITB), where she leads the Graphics-Visualization-Computing Lab, at their E-Health Research Center. She introduced the audience to the different kinds of brain networks, and discussed the role of data science in identifying the hierarchical modular organization of the human brain.

This webinar was part of the data science webinar series organized under the auspices of the “Manav: Human Atlas Initiative”. This initiative is a collaborative project between the National Centre for Cell Science (DBT-NCCS), the Indian Institute of Science Education and Research (IISER-Pune) and Persistent Systems, and is funded by the Department of Biotechnology (DBT), Government of India, and co-funded by Persistent Systems. This series was initiated soon after the lockdown began, turning this challenging situation into an

opportunity to create awareness about data science and its applications. These webinars are open to all, and have attracted thousands of registrations, mainly from students.

The “Manav: Human Atlas Initiative” aims to annotate the extensive information related to the human body that is available in the scientific literature and databases, and initiate steps towards creating a human atlas eventually. The project, being conducted through a public-private partnership, serves as a platform to help students across India learn how to comprehend and analyze scientific literature, and extract relevant information from it using a digital annotation tool. Online workshops on how to read scientific literature are also routinely conducted. Colleges interested in having a session organized for their students can write to manav.iiserpune@gmail.com. Students, faculty members and researchers interested in participating in the project can learn more from the project’s website (<https://manav.gov.in/>) and social media: Twitter (Manav Human Atlas; @ManavAtlas) & Facebook (MANAV Human Atlas). The Rajya Sabha TV has also featured this initiative on Gyan Vigyan & Science Monitor.

Links related to this story -

* Twitter: @DBT_NCCS_Pune

https://twitter.com/DBT_NCCS_Pune/status/1359134762183446528

* Facebook: DBT - National Centre for Cell Science

https://www.facebook.com/permalink.php?story_fbid=3836218656437264&id=509782325747597¬if_id=1612882153448145¬if_t=page_post_reaction&ref=notif

* YouTube Channel (archived webinars): Manav - The Human Atlas Initiative

* ‘Manav: Human Atlas Initiative’ featured by Rajya Sabha TV on -

Gyaan Vigyaan: <https://youtu.be/Ule08azR1ww>

Science Monitor: <https://www.youtube.com/watch?v=IMgTw6rXTGQ>

Contact Person & Contact Details:

Communication coordinator: Jyoti Rao (jyoti@nccs.res.in)

Link: <https://www.nccs.res.in/>