

Report on Webinar based Tech Talk

Date & Time : 19th April,2020 from 10:00 am to 11:0 am

Description: To demonstrate Introduction to R in Statistical Analysis

IEEE Computer Society Ideate team, Hyderabad Section had organized the webinar-based Tech Talk on the topic Introduction to R in Statistical Analysis. Mr. Balaprasad Peddigari, the Secretary of the IEEE Hyderabad Section hosted the webinar with 250 delegates and appreciated their interest.

Mr.Saikumar Tara has addressed Mr.Ravi Nistala to the audience and briefed about his excellence in R Technology and his Experience in data analytics

Mr.Ravi Nistala has started the session by sharing his knowledge on R Programming Language's importance on Data Analytics by covering five major sub-topics to be performed.

1. Programming Environment of R
2. Why R, not Python?
3. DataFrames in R
4. Usages, Advantages, Disadvantages

The screenshot displays a web browser window with a Firefox address bar showing the URL <https://ieeemeetings.webex.com/mw3300/mywebex/default...>. The main content area shows a presentation slide titled "What is R?" with a large orange semi-circle on the left. The slide lists the following points:

- Provides built-in relevant datatypes (numeric and character vectors, "tables", etc.), operations and facilities for data manipulation and analysis and for scientific visualizations
- Includes (or allows seamless import of) large number of functions and modules ("packages"), in particular
- All sorts and flavors of statistical packages, both general purpose and domain-specific
- Powerful plotting capabilities
- Provides an interactive session, where commands can be executed one at a time and their outputs examined: one can really "play with the data"
- Is free and widely supported: large number of books, online tutorials and discussion boards, lots of contributed packages from experts in different fields

On the right side of the browser window, there is a sidebar titled "RN" (Ravi Nistala) showing a list of participants in a grid:

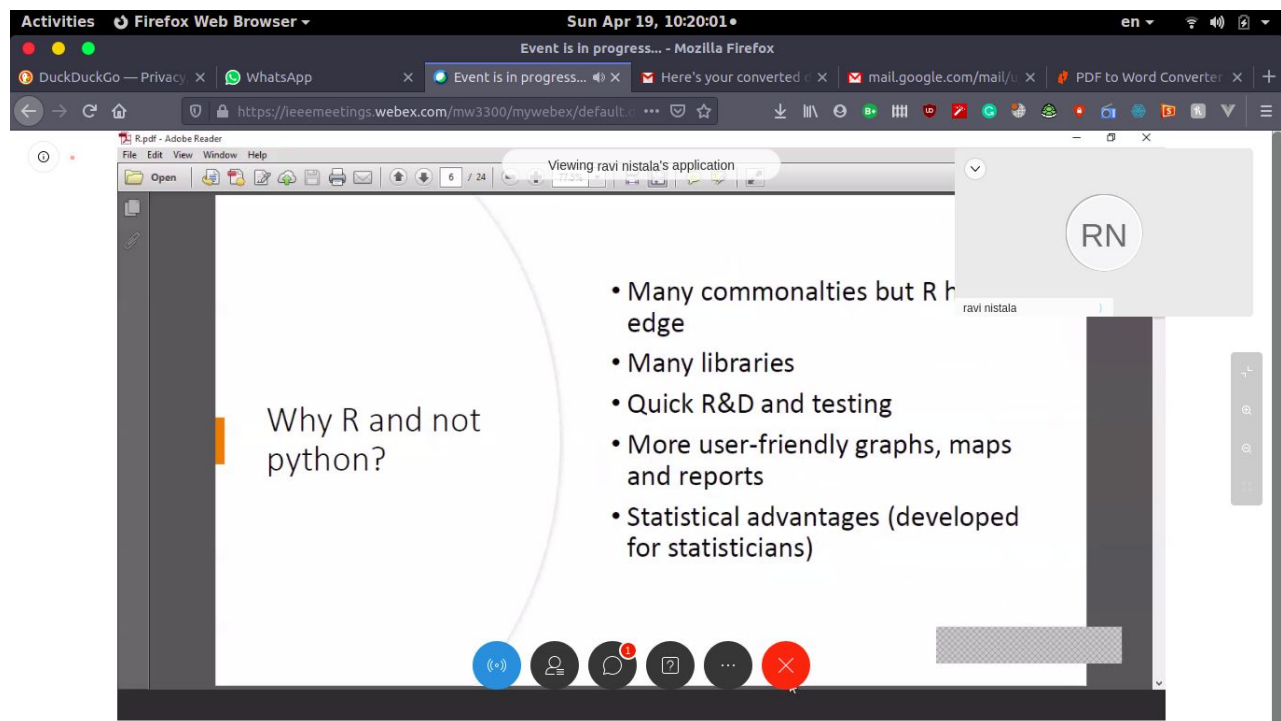
RN	
ravi nistala	
IP	CD
IEEE Hyderaba... (Host)	Chandra Dasaka
ST	
SAIKUMAR TARA	ravi nistala

At the bottom of the browser window, there is a toolbar with icons for audio, video, chat, and other controls.

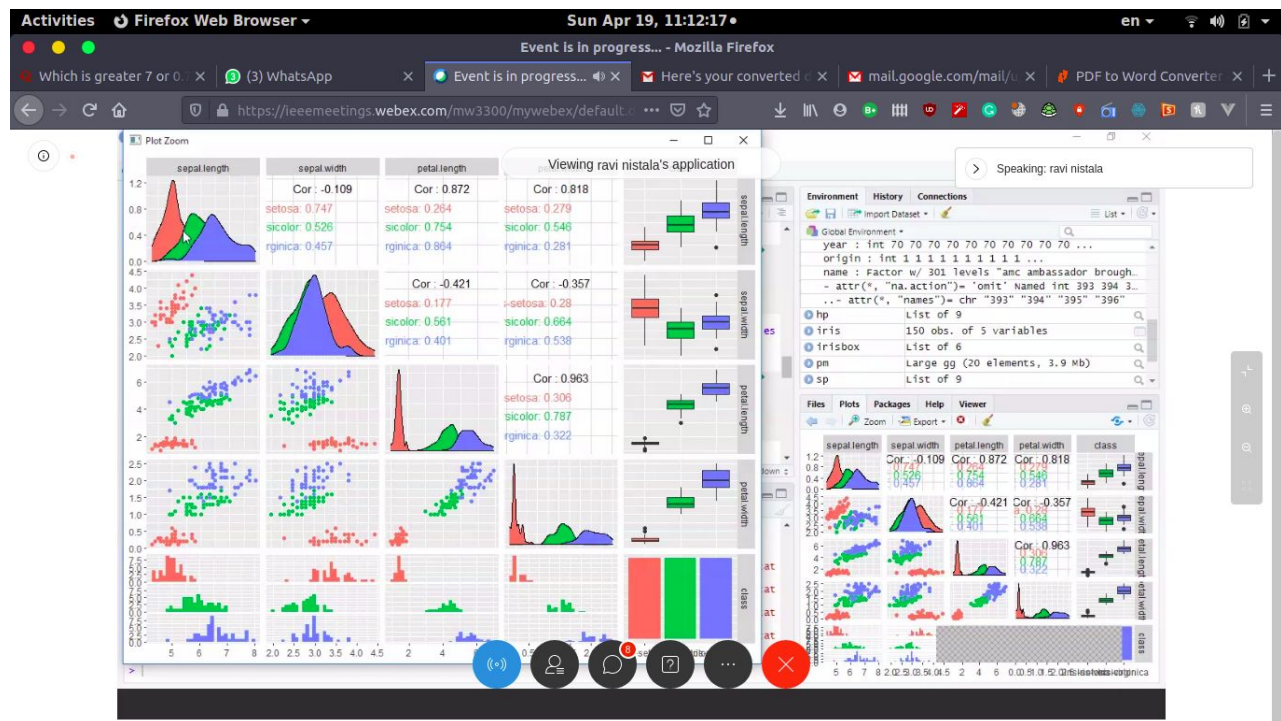
The webinar included topics like Applications of R in Real-time, R-Studio, R IDE, Plotting graphs using numerical data, Statistical Analysis

Mr. Ravi Nistala started on the first topic Programming Environment of R by the installation of R in different Platforms. After installing he has explained about R-prompt and Rscript file. he has explained Database connections and R-cheat sheets briefly which is very important to understand.

Mr. Ravi Nistala has covered the topic Why R, not Python? that R has an effective data handling and storage capacity. Comparing R to Python, R is quick in research and development and more user-friendly, understandable graphs, Statistical advantages.



Mr. Ravi Nistala has explained Data Frames in R in R-Studio and explained about a feature of Shiny WebApp and Plumber API as the session went on hands-on and explained Examples of each datatype in R and vectors.



Mr.Ravi Nistala has explained the Advantages along with usages and Disadvantages of R. some of them are R is used for statistical learning and Data Analytics and as R calculator. Advantages are ease of use, free and opensource. The disadvantages are R can be intimidating and no commercial support.

Mr.Ravi Nistala handled the session on the topics Algorithms, Scatter plots and gave various insights about how to classify the data by collecting the data samples and performing statistical analysis for risk classification and later continued the session by explaining algorithms which can be used to analyze the data to make decisions. He has given detailed information about the R Language and Data Analytics, R-Graphs and gave examples to plot graphs.

The webinar ended with Mr. Balaprasad Peddigari presenting vote of thanks to Mr. Ravi Nistala and his students for their time and all the delegates for showing interest in learning new things

**The outcome of the
Webinar:**

The Delegates learnt about the Introduction to R language, Datatypes, Dataframes in R and IDE and R-Studio for R language and Importance of R Language in Data Analytics and Statistical Analysis and methods of analysing the data along with algorithms that are needed for the results.