

# Report on Webinar

**Date & Time :** 4th April,2020 from 5:00 pm to 6:30 pm

**Description :** To demonstrate different problems analysis on COVID-19 and healthcare domain using AI.

IEEE Computer Society Ideate team, Hyderabad Section had organised the webinar on the topic Analysis of Covid-19 & Health care Problems using AI. Mr. Vidya sagar, the chairman of IEEE Computer Society Hyderabad Section hosted the webinar with 111 delegates and appreciated their interest.

The poster is for a webinar titled "WEBINAR ON ANALYSIS OF COVID-19 AND HEALTHCARE PROBLEMS USING AI". It features the IEEE Hyderabad Section logo in the top left and the IEEE Computer Society logo in the top right. The event is scheduled for 04th April 2020, from 05:00 PM to 06:30 PM, and is free of charge. The mentors listed are Mr. T Vidyasagar and Mr. Senthilkumar. The team consists of Dharan P, Charan P, Akash G, and Jaya Sravani S. An event link is provided as bit.ly/covid\_ai. The poster also includes social media handles for IEEECSHYDERABAD and IEEE CS HYDERABAD SECTION. An illustration on the right shows a doctor in a white coat interacting with a blue robot on a pedestal.

**IEEE**  
HYDERABAD SECTION

**IEEE**  
COMPUTER  
SOCIETY

**WEBINAR**  
ON  
**ANALYSIS OF COVID-19 AND HEALTHCARE PROBLEMS USING AI**

**Mentors**  
Mr. T Vidyasagar  
Mr. Senthilkumar

**Team**  
Dharan P  
Charan P  
Akash G  
Jaya Sravani S

**Event Link :-** [bit.ly/covid\\_ai](https://bit.ly/covid_ai)

04th April 2020  
05:00 PM to 06:30PM

FREE ENTRY

IEEECSHYDERABAD IEEE CS HYDERABAD SECTION

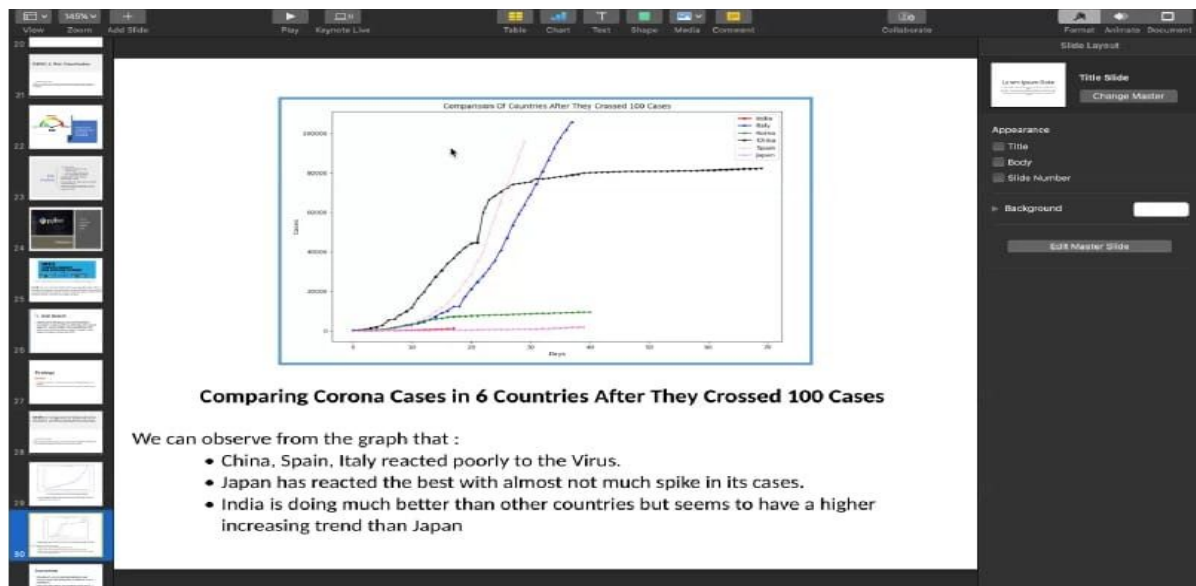
Mr. Senthil Kumar started the session by sharing his knowledge on the Data Analysis on Health care by covering four major steps to be performed.

1. Descriptive Analysis

2. Diagnostic or Prescriptive Analysis
3. Predictive Analysis
4. ML, AI and Cognitive Analysis

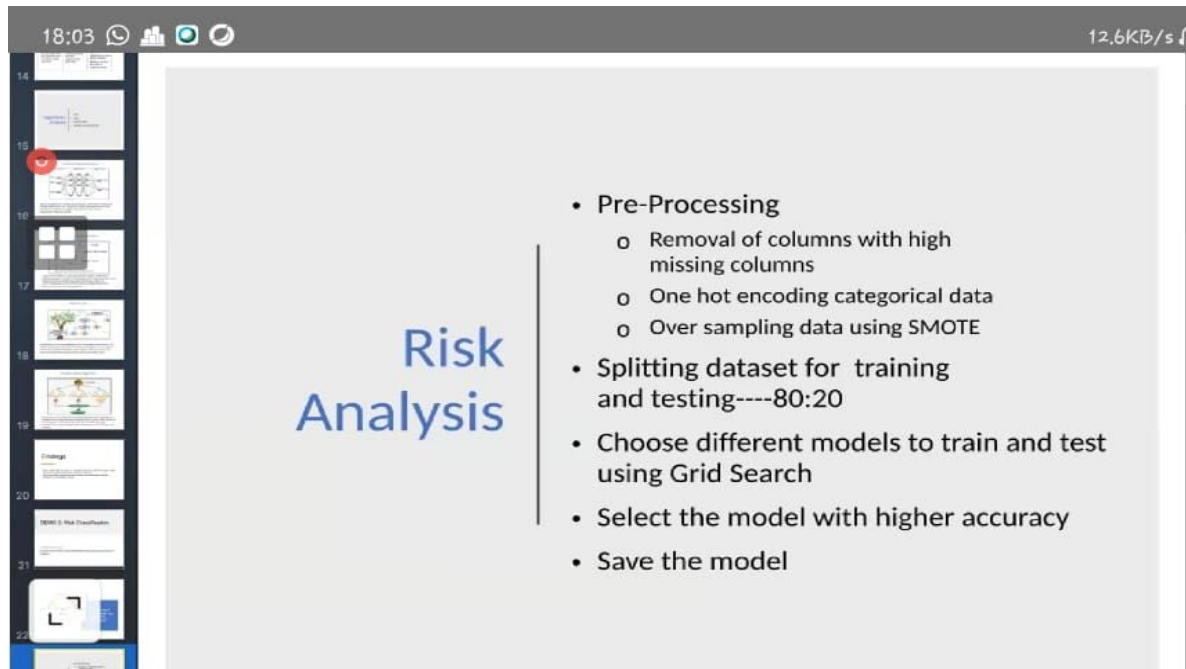
The webinar included three topics Comparison of India with other Countries and Forecast of Corona Data, Risk Classification and Churn Analysis.

Mr. Akash Gujju started on the first topic Comparison of India with other Countries and forecast of corona data by describing how he had analyzed the covid data of India with other countries and also how he forecasted the data for the next few days. He explained the steps for analysis, starting with Preprocessing of Data i.e, reading of data from multiple sources and extracting the necessary data. Later he explained the data visualisation concepts followed by the machine learning model.



Mr. Sai charan Perur and Mr. Dharan Kumar handled the session on the topics Risk Classification & churn Analysis. Dharan Kumar gave various insights about how to classify the data by collecting the data samples and performing the grid search for risk classification and later Sai charan continued the session by explaining the

algorithms which can be used to analyse the data to make decisions. He has given detailed information about the Artificial Neural Networks, Support Vector Machine, Decision tree and random forest algorithms.

The image is a screenshot of a webinar interface. At the top, a dark grey header bar shows the time '18:03' on the left and '12.6KB/s' on the right. Below the header, on the left side, is a vertical sidebar containing a list of slide thumbnails numbered 14 through 24. The main area of the screen is a light grey rectangle. On the left side of this rectangle, the words 'Risk Analysis' are written in a large, blue, sans-serif font. To the right of this text, there is a bulleted list of steps in a dark grey font. The list includes: 'Pre-Processing' with sub-points 'Removal of columns with high missing columns', 'One hot encoding categorical data', and 'Over sampling data using SMOTE'; 'Splitting dataset for training and testing----80:20'; 'Choose different models to train and test using Grid Search'; 'Select the model with higher accuracy'; and 'Save the model'.

The group of speakers later shared graphs comparing the data as examples of Data mining.

The webinar ended with Mr. Vidyasagar presenting vote of thanks to Mr. Senthil Kumar and his students for their time and all the delegates for showing interest in learning new things

### **Outcome of the webinar:**

The Delegates learnt about the process and methods of analysing the data of Covid-19 along with the softwares and algorithms which are needed for the results and also how we can analyze healthcare problems using AI.