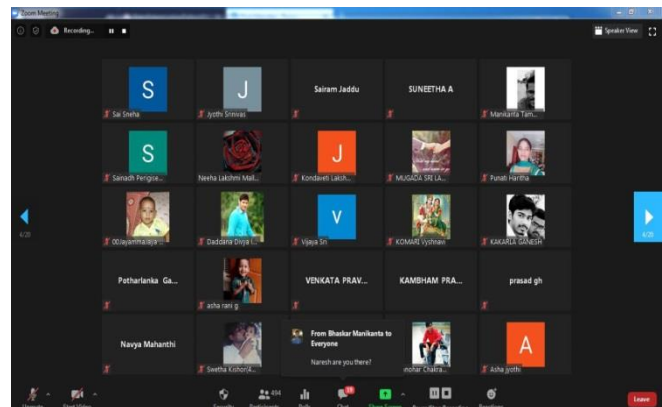
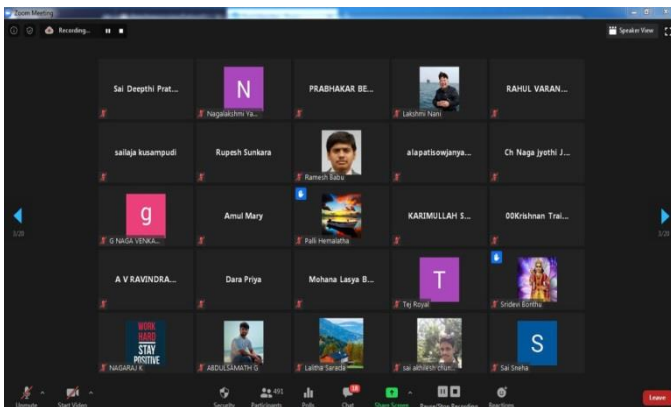
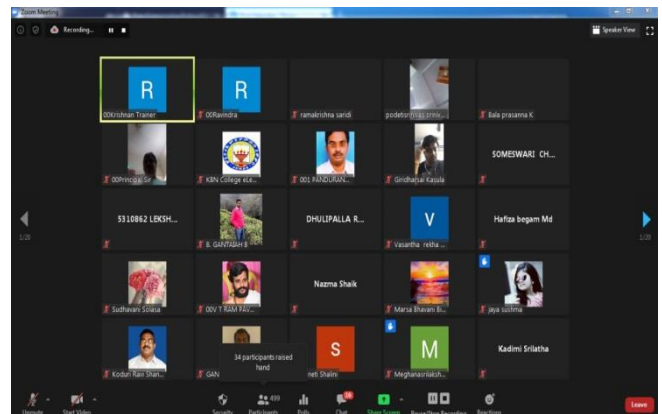
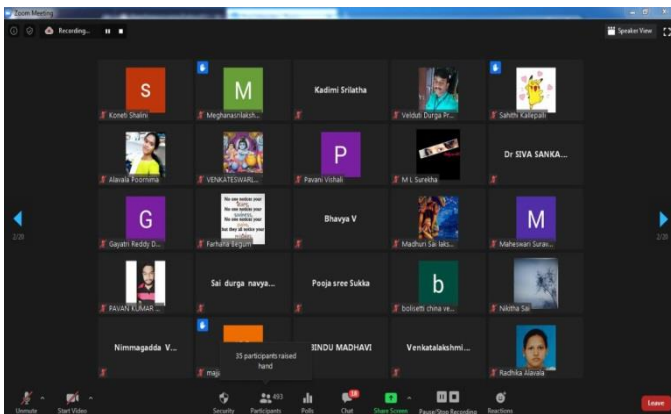


# UGC Sponsored Two Day National Webinar on "DATA SCIENCE USING PYTHON"


25<sup>th</sup> & 26<sup>th</sup> May, 2020

Organized by: Department of Computer Science & Applications

Day - I - 25<sup>th</sup> May, 2020



You are viewing KBN College eLearning's screen. View Options




UGC SPONSORED TWO DAY NATIONAL LEVEL WEBINAR ON  
**DATA SCIENCE USING PYTHON (NWDSP 2020)**  
On May 25 and 26, 2020

ORGANIZED BY  
Department of Computer Science & Applications  
KBN College (Autonomous)

KRISHNA PATNAM

Good afternoon all  
Meeting will start at 2.00 PM  
All participants will be in mute.  
Please switch off your webcam





**Introduction of the Webinar by Dr. V. Narayana Rao, Principal**



**Keynote Speaker Mr. G. Srinivas, Joint Secretary, UGC SERO  
addressing the participants in the webinar**

## Screenshots of Keynote Speaker PPT



This screenshot shows a presentation slide with a black background. At the top left, there is a 'Recording' indicator. At the top center, a green bar reads 'You are viewing 00Krishnan Trainer's screen' with a 'View Options' dropdown. The main title 'Key areas' is in large white font. Below it is a bulleted list of five items: Financial analytics, Social Media Analytics, Retail analytics, eGovernance, and HR Analytics. On the right side, there is a vertical black bar with the text '00Kris'.

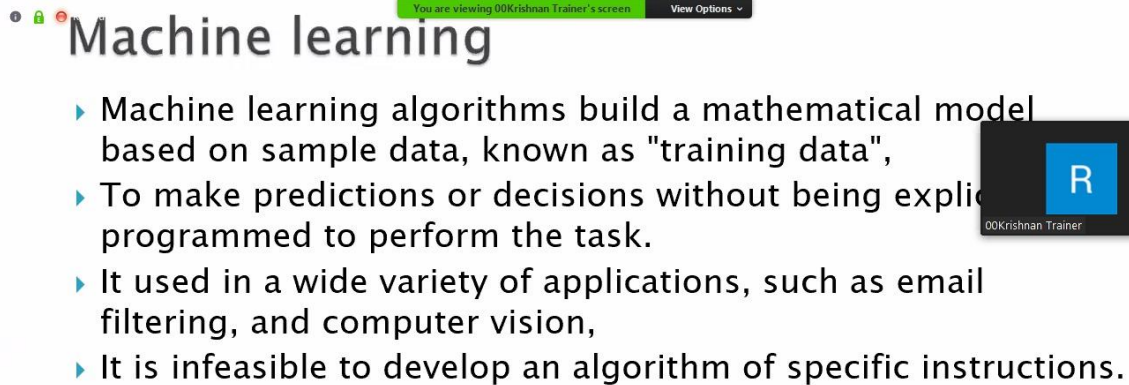
Recording

You are viewing 00Krishnan Trainer's screen View Options

# Key areas

- Financial analytics
- Social Media Analytics
- Retail analytics
- eGovernance
- HR Analytics

00Kris



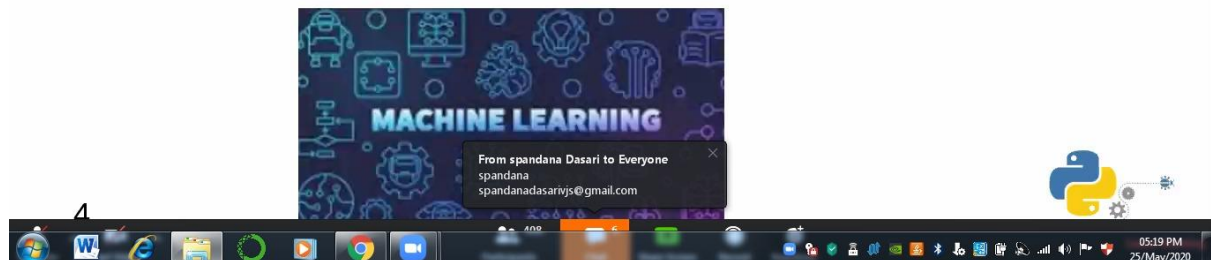
This screenshot shows a presentation slide with a white background. At the top center, a green bar reads 'You are viewing 00Krishnan Trainer's screen' with a 'View Options' dropdown. The main title 'Machine learning' is in large black font. Below it is a bulleted list of four items. On the right side, there is a small blue square with a white 'R' and the text '00Krishnan Trainer' below it.

You are viewing 00Krishnan Trainer's screen View Options

# Machine learning

- ▶ Machine learning algorithms build a mathematical model based on sample data, known as "training data",
- ▶ To make predictions or decisions without being explicitly programmed to perform the task.
- ▶ It used in a wide variety of applications, such as email filtering, and computer vision,
- ▶ It is infeasible to develop an algorithm of specific instructions.

00Krishnan Trainer



This screenshot shows a presentation slide with a dark blue background featuring various icons related to machine learning. The title 'MACHINE LEARNING' is in large white font. Below it is a small white box with the text 'From spandana Dasari to Everyone', 'spandana', and 'spandanadasarijs@gmail.com'. On the right side, there is a Python logo. At the bottom, there is a Windows taskbar with various application icons and a system tray showing the time '05:39 PM' and date '25/May/2020'.

MACHINE LEARNING

From spandana Dasari to Everyone  
spandana  
spandanadasarijs@gmail.com

Python

05:39 PM  
25/May/2020

## Feedback from Participants of Day – I

Zoom Group Chat

thank you sir

From JITHENDRA KUKUTLA to Everyone:  
Plz send PPT to all participants mail accounts

From Bonigi Bhargav to Everyone:  
thanq u for this good information

From Vijayasradhi Komanduri to Everyone:  
Awesome session sir

From K S Lakshmi Priya to Everyone:  
Thank you sir

From S Guru Jyothi to Everyone:  
Good Session sir

From CHRIPARAPU SRINIVASARAO to Everyone:  
pics & voice are instructed data

From Chaithra Lavanya Komanduri to Everyone:  
Superb session sir

From Miniswar Kosana to Everyone:  
nice presentation sir

From VEERA SIVA PRASAD to Everyone:  
Name: Veera Siva Prasad  
Email :spv@sircreddycollege.ac.in  
9014393931

From Nagalakshmi Tumma to Everyone:  
Awesome session sir

From Bonigi Bhargav to Everyone:  
thanq u very much participated MCA friends

To: Everyone

Type message here...

www.youtube.com • now

YouTube  
Watch ABN Telugu live in 30 minutes: Pawan Kalyan, Bandi Sanjay Press Meet LIVE | Janasena, BJP | ABN LIVE

05:30 PM  
25/11/2020

### What did you like about Day 1 session?

Answered: 251 Skipped: 27  
Scope of Data Scientist, analysis etc.

Good

Python is very usefull

About Database

Present situation

Excellent

i got the good information from the session. It can be used in regular

More Information

Session 2

Nice topic

Good Explanation

KBN College Session Day - 1

0

### Please say few words about the overall experience of this Day 1 session ?

Answered: 249 Skipped: 29

ink <https://www.surveymonkey.com/stories/SM-SXLP2L1>

COPY

Powered by Surve

UGC Sponsored Two Day National Webinar on  
**“DATA SCIENCE USING PYTHON”**

25<sup>th</sup>& 26<sup>th</sup> May, 2020

Organized by: Department of Computer Science & Applications

**Day - I - 25<sup>th</sup> May, 2020 - Report**

**Number of Participants: Varying from 450 to 500**

The president of today session **Dr. V. Narayana Rao, Principal** has cordially welcomed the participants. He said that Data Science is the quiet significant topic in the present era. He congratulated the department for conducting the webinar on the burning topic that is Data Science. He assured the participants that it is going to be very informative for their carrier.

The keynote speaker of today's session was **Joint Secretary, UGC SERO, Mr. G. Srinivas**. He Congratulated the K.B.N College for organizing this Webinar. He spoke about Data Science and importance of Data Science. He also mentioned in his speech that Python is the best language for Data Science because its ease of use. He also appreciated the college and wished good luck with the Webinar.

**Mr. N.R. Anantharamakrishnan**, RAK Analytic Solution Pvt. Ltd., Bengaluru started the actual technical session. In his session discussed about the importance of data science.

**Session-1:**

He said that data is everywhere and there is a huge need for the data science. He said that there is a job scarcity in every field, but Data Scientists can be assured because there is much demand globally for Data Scientists. Python is the best language for the Data Interpretation. It is a simple and very easy to learn.



Data Scientists help in the business to make right and best decisions for the business. They provide Data driven business strategies using analytics in the business. Data Science can help in solving problems in the daily life. Like Fraud analysis and prevention. He also discussed that churn analytics, price optimization and risk analytics are also part of the data analysis which can be solved through Data Science.

### **Session-2:**

In the second session Mr. Krishnan pondered on the topics like:

Roles of Data Scientists: Data Analyst, Data Architect, Data Engineer, Big Data Engineer etc. are the roles of Data Scientists.

Key Areas of Data Science:

Social Media analytics, Web Analytics Supply Chain Analytics are the key areas.

Skills needed for Data Science like programming, Visualization, Machine Learning, etc.

Python is a very accurate and appropriate language for data representation and anyone can learn python since it is a easy language. There is a need for every mentor to learn Data Science. Many universities are also adding Python in their Curriculum. Popular tools for Data Science: Python, R, SAS, Excel etc.

# Day - II - 26<sup>th</sup> May, 2020

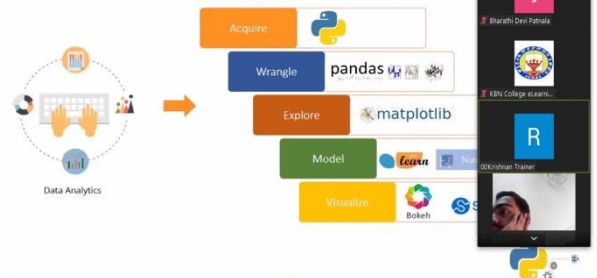
Which is not a type of learning

Supervised      Unsupervised

Superimposed      Reinforcement

## Data Analytics and Python

Python deals with each stage of data analytics efficiently applying different libraries and packages.



80

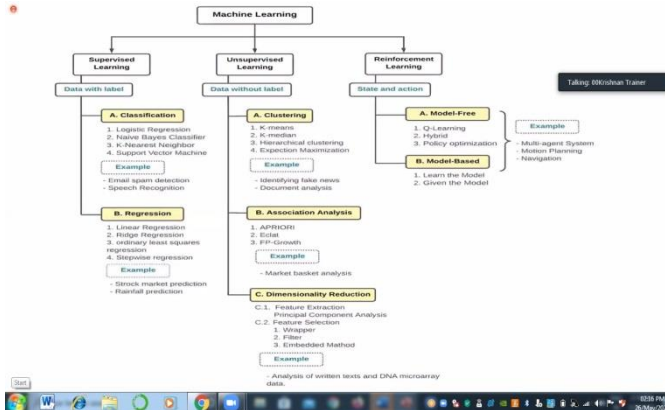
classify  
Binary classification  
>2 groups  
Souvenir - 30 K  
Sweets - <=30 K

## IDE's for Python Programming

- ▶ Spyder
- ▶ Jupyter Note Book
- ▶ PyCharm

### Online IDE's for ML & DL

- ▶ Kaggle Note Book
- ▶ Google Colab



Machine Learning

- Supervised Learning (Data with label)
  - A. Classification
    - Logistic Regression
    - Naive Bayes Classifier
    - K-Nearest Neighbor
    - Support Vector Machine
 Example: Email spam detection, Speech Recognition
  - B. Regression
    - Linear Regression
    - Ridge Regression
    - Ordinary least squares regression
    - Stepwise regression
 Example: Stock market prediction, Financial prediction
- Unsupervised Learning (Data without label)
  - A. Clustering
    - K-means
    - K-medians
    - Hierarchical clustering
    - Expectation Maximization
 Example: Identifying fake news, Document analysis
  - B. Association Analysis
    - APRIORI
    - Eclat
    - FPM-Growth
 Example: Market basket analysis
  - C. Dimensionality Reduction
    - Feature Extraction
      - Principal Component Analysis
    - Feature Selection
      - Wrapper
      - Filter
      - Embedded Method
 Example: Analysis of written texts and DNA microarray data
- Reinforcement Learning (State and action)
  - A. Model-Free
    - Q-Learning
    - Hybrid
 Example: Multi-agent System, Mobile Gaming, Navigation
  - B. Model-Based
    - Learn the Model
    - Given the Model

Zoom Meeting

Recording

Zoom Group Chat

From ASHOK KOLLU to Everyone: Thank you sir

From Sravani Ganta to Everyone: the session was awesome

From Naga Sireetha Jagant to Everyone: sir can we get the recorded session

From S Gnu Jyothi to Everyone: thank you Sir

From Venkadesa Jahnavi to Everyone: thank you sir

From Vaishnavi Gedela to Everyone: sir please share the feed back form

From NAGARAJU DARELLI to Everyone: I recorded video for today and yesterday session

From Rajageswari Sripathi to Everyone: I need recorded sessions day1,2,3

From Hassan meer to Everyone: good evening sir

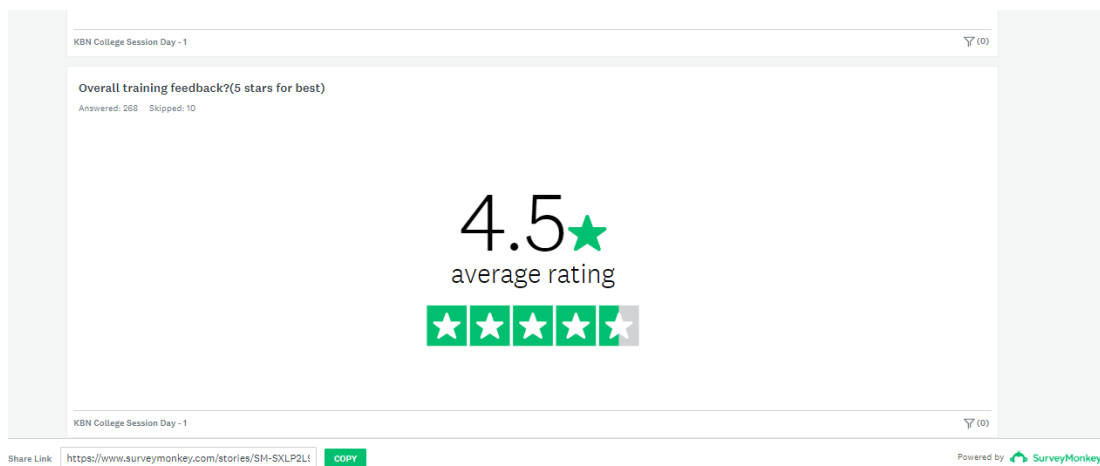
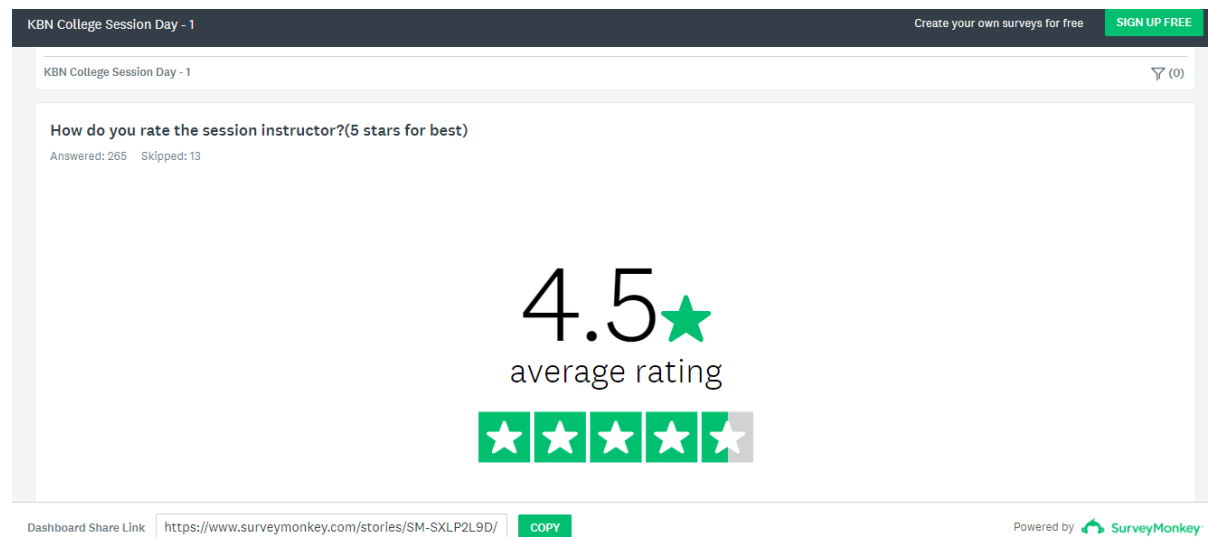
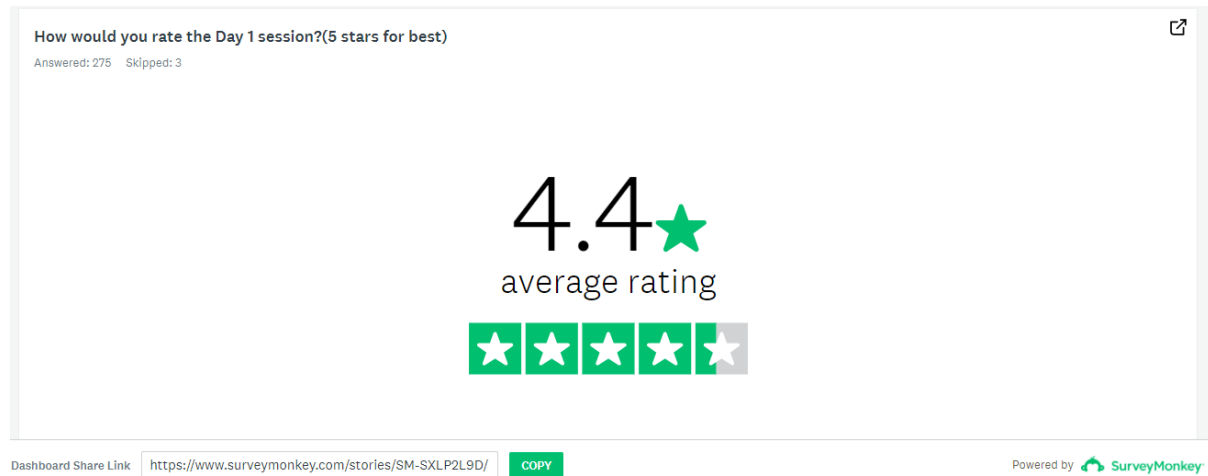
From E.S.S.V.N.LAKSHMI to Everyone: Good evening sir

From babji nagaveti to Everyone: thank you sir

To: Everyone

Type message here...

# Screenshots of Feedback from participants





**What did you like about Day 1 session?**

Answered: 251 Skipped: 27

Good

Fast

Beautiful Explanation

Explain about the different componets nd machine learning

All is well

the way of instruction is good

Creation of Google Suite

Everything

Explanation is quite comfortable.

Scope of Data Scientist, analysation etc.

KBN College Session Day - 1

🗲 (0)

**Please say few words about the overall experience of this Day 1 session ?**

Answered: 249 Skipped: 29

<https://www.surveymonkey.com/stories/SM-SXLP2L1>

**COPY**

Powered by  **Surve**

## Day - II - 26<sup>th</sup> May, 2020 - Report

### Number of Participants: Varying from 330 to 390

**Mr. N.R. Anantharamakrishnan**, RAK Analytic Solution Pvt.Ltd., Bengaluru started the actual technical session. In his session discussed about the importance of Artificial Intelligence and Machine Learning in today's world.

#### **Session-1:**

He said that Machine learning algorithms are divided in to three types supervised learning, unsupervised learning and Reinforcement learning.

He said Machine learning use cases includes Facebook, Amazon, Uber, Spotify, Airbnb, etc. Machine learning techniques are used in Email spam detection, Speech recognition, Identify fake news in what'sapp, market basket analysis, Rainfall prediction, Stock market prediction. He also given the Id's for Python Programming and Online Data Repositories like kaggle, GitHub and UCI repository.

He explained about classification problem which identifies discrete variables and regression is about identifying continuous variables. Data analytics with python is used for Data Acquiring, Data Wrangling, Data Exploring, Data Modelling and Data Visualizing. He also discussed about fitting the model, training dataset and test data set.

#### **Session-2:**

Session 2 started with an online quiz in Kahoot app about data science and machine learning. In the second session Kannarn explained about the data set titanic.csv which was available in Kaggle Repository.

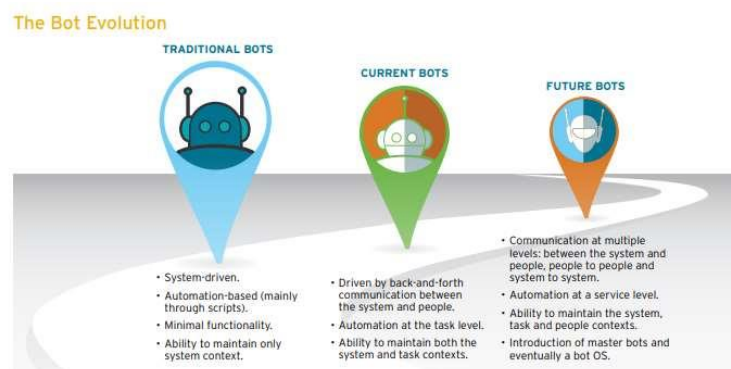
Titanic.csv data set contains the columns Survival, Pclass, name, age, ticket, fare, and embarked. Data Preparation process includes Looking for data, Finding Missing values, Removing outliers, Standardization, Identifying the training and test

data randomly select in the ratio of 70:30 respectively. Next Step is fitting the model like linear regression, model should contain both dependent and independent variables. Finally predict the result by passing the test data to our model and finally checks for accuracy.

Example model taken is Logistic Regression which is a Machine Learning classification algorithm that is used to predict the probability of categorical dependent variables, the data set imported is titanic.csv.

As part of Natural Language Processing in python demonstrated about chatbot which is an AI-based software designed to interact with humans in their natural languages. These chatbots are usually converse via auditory or textual methods, and they can effortlessly mimic human languages to communicate with human beings in a human-like manner.

A chatbot is arguably one of the best applications of natural language processing.



In order to successfully build a conversational engine, it should take care of the following things:

- Understand who is the target audience
- Understand the Natural Language of the communication.
- Understand the intent or desire of the user
- Provide responses that can answer the user

Words of Valedictory was given by the Vice Principal Mr. E.Vara Prasad, delivered warm words on two day National Webinar and appreciated for resounding success with huge number of participants.

# BROCHURE

**CHIEF PATRON**

**Sri Tunuguntla Srinivasu**  
Secretary & Correspondent, BHU College Committee

**PATRON**

**Dr. V. Narayana Rao**  
Principal

**CONVENOR**

**Dr. P. Bharathi Devi**  
Head, Dept. of MCA & Co-ordinator, MNC

**ADVISORY COMMITTEE**

Prof. Y. K. SundaraKrishna, Dept of CS, KRU, Machilipatnam  
Dr. R. Kiran Kumar, Dept of CS, KRU, Machilipatnam  
Dr. M. Babureddy, Dept of CS, KRU, Machilipatnam  
Dr. D. Ramasekhara Reddy, CoE, KRU, Machilipatnam

Sri E. Venu Prasad *Vice-Principal*  
Dr. K. Naveen Kumar *Vice-Principal*  
Sri P. L. Ramesh, Director, Academics & Planning  
Sri S. Venkatesh, Director.. PG Centre

**ORGANIZING COMMITTEE**

Dr. Bhadrani, MCA, S.S. (20)	Dr. K. Bhagavan	Ms. E. Jayamma
Sri P. Ravindra, MCA, CS	Sri Ch. V. Suresh	Sri. B. Guntaiah
Sri S.S.Y. Sai	Sri Y. Srinivas Rao	Dr. L. Sravan
Sri P. Vasu	Dr. M. Kala Devi	Ms. A. Pratyusha
Sri V. Suresh	Ms. G. Tejaani	Mr. K. S. Nagaraju
Dr. P. Sreethi	Sri. K. V. Suman	<b>TECH SUPPORT</b>
Ms. G. Geetha Purnani	Dr. Ch. Subarini	Mr. P. Subhanvra Rao
Dr. V. B. Lakshmi	Sri K. V. Pavan Kumar	Mr. A. Prabhakar Rao

**UGC Sponsored Two Day National Webinar on**

***"Data Science using Python"***  
In Collaboration with Krishna University, Machilipatnam  
(In association with RAK Analytic Solutions Pvt. Ltd.)

**25th & 26th May, 2020**  
Organized by  
*Dept. of Computer Science & Applications*

ISO 9001:2015 NAAC 'A' GRADE  
**K.B.N. COLLEGE (AUTONOMOUS)**  
Sponsored by S.K.P.V.V. Hindu High Schools' Committee  
Kothapeta, Vijayawada - 520001.  
A College with Potential for Excellence (CPE)  
All India 82<sup>nd</sup> Rank in NIRF by MHRD (2017)

**About K.B.N.:**  
Kakaraparti Bhavanarayana College is a vivacious outcome of a century old renowned charitable organization, S.K.P.V.V. Hindu High Schools Society with "Tejaswina Vaidheethamasthu" as its motto. Since its inception in 1966, it marked an epoch in innovative education, in an academically and economically impoverished area. The college with heightened social imagination and ardent zeal, shone like a lodestar led innumerable students towards the goal of an illustrious life.

The ever vibrant college grew by leaps and bounds and has evolved with times. It has been adorned with the Autonomous status by the UGC in the year 2010, and received "Best Laboratory", "Best Academic Achievement", "Best Library", "Best NSS Unit" awards. The College has never rested on its laurels and has been relentlessly raising the bar. It is certified with ISO 9001-2015 which has been given for Quality Management Standard and accorded with CPE in 2016 by UGC. It has been reaccredited with "A" Grade by NAAC in 2019.

**About the Department:**  
The Year 1992 is a landmark in the history of KBN college that witnessed the dawn of department of Computer Science. BCA course was introduced in the college during the academic year 1998-99 and M.Sc. (Computer Science) course is being run successfully since 2001. Short term Vocational Computer courses have been introduced by this Department in the year 2007 with the permission of Board of Intermediate Education, Andhra Pradesh and these extracurricular courses have become a recognizable feather in the cap of the Department. MCA program was started during the Academic year 2007-2008. Multimedia and Animation courses have been launched in the Academic Year 2010-11.

**Topics to be covered in the webinar:**

- Introduction to data science
- Skills needed for a data scientist
- Different Job roles (avatars) of a data scientist
- Typical responsibilities of a data scientist
- Real life applications
- Machine Learning Introduction
- Classification
- Regression analysis
- Clustering
- Distance Measures
- Recommendation systems
- Very high level overview of following topics
- Deep Learning
- NLP
- Chatbot

**Note:** Digital Certificates will be issued to those who have attended two days webinar

**SESSION TIMINGS**  
25th & 26th May, 2020

**Session I: 2.00 P.M. To 3.30 P.M.**  
**Session II: 4.00 P.M. To 5.30 P.M.**

# PROGRAMME SHEET

KAKARAPARTI BHAVANARAYANA COLLEGE(AUTONOMOUS)  
(SPONSORED BY S.K.P.V.V. HINDU HIGH SCHOOLS)

KOTHAPET, VIJAYAWADA - 520 001.

## TWO-DAY NATIONAL WEBINAR

ON

## DATA SCIENCE USING PYTHON (NWDSP-2020)

In Collaboration with Krishna University, Machilipatnam

(In association with RAK Analytic Solutions Pvt. Ltd.)

### PROGRAMME SHEET

(25<sup>th</sup> AND 26<sup>th</sup> -05-2020 @ 2:00 PM)

Welcome words :Ms.R.Jayamma

DETAILS OF SESSIONS: On 25<sup>th</sup> and 26<sup>th</sup> May 2020

Day-I	
25/05/2020(Monday)	
Time	Details
2.00P.M-2.05 P.M	President's Address Dr.V.NarayanaRao, Principal
2.05 P.M-2.15 P.M	Key Note address by Prof. G. Srinivas, JS, UGC,SERO
2.20 P.M -3.30 P.M	SESSION I (In-charge of session: Ms.R.Jayamma)
3.30 P.M-4.00 P.M	BREAK
4.00 P.M-5.30 P.M	SESSION II (In-charge of session: Mr.M.V.R.Pavan Kumar)
Day-II	
26/05/2020(Tuesday)	
2.00 P.M -3.30 P.M	SESSION III (In-charge of Session: Mr.V.Suresh)
3.30 P.M-4.00 P.M	BREAK
4.00 P.M-5.30 P.M	SESSION IV (In-charge of Session: Mr. S. Vasu)
5:30 PM	Valedictory by Sri E. Vara Prasad, Vice-Principal



## INFORMATION OF THE WEBINAR

Sir/Madam,

Warm greetings from K.B.N. College.

I feel immense pleasure to announce that this college is going to organise **UGC Sponsored Two-Day National Webinar on “DATA SCIENCE USING PYTHON”** on **25th & 26<sup>th</sup> May, 2020** in collaboration with **Krishna University, Machilipatnam** and in association with **RAK Analytic Solutions Pvt. Ltd, Bangalore** In this connection, I request you to utilize the technical sessions of the webinar on the scheduled days. The detailed brochure is enclosed herewith for your kind perusal.

Note:

1. **NO Registration Fee**
2. **Digital Certificate will be issued to those who have attended two days webinar**

**Registration Form Link:**

<https://forms.gle/krYvwc1ZwjzMJmt58>

Thanks and regards

(Dr. V. NARAYANA RAO)  
Principal-FAC