

Attendance bot: dev(Pavan:p2pdops@gmail.com) on 2021-07-17 : 20:07: <https://meet.google.com/c>

Members present : 23

Attendee	Score	7:47 PM	8:07 PM
Molay Kurr	2/2	✓	✓
abhas bisw	1/2	✓	✗
Akash Hald	1/2	✓	✗
Ankita Mul	2/2	✓	✓
ARINDAM	1/2	✓	✓
Arnab Bose	2/2	✓	✓
Arpan Pal	2/2	✓	✓
Asha Garai	1/2	✓	✗
DEBNATH	1/2	✓	✗
Deepak Dh	2/2	✓	✓
Isha Acharj	1/2	✓	✗
Joyshree B	2/2	✓	✓
Jyoti Ghos	2/2	✓	✓
Manish pra	2/2	✓	✓
Padmaja P	2/2	✓	✓
Partha Nay	2/2	✓	✓
Prakash Da	2/2	✓	✓
Ritul Das	2/2	✓	✓
sanchita b	2/2	✓	✓
Shreya Kar	2/2	✓	✓
Sova Prasa	2/2	✓	✓
Subham B	2/2	✓	✓
Ujjwal Roy	2/2	✓	✓

Avg: 1.78/2

sh-jyjg-gwi

Members present : 44

Attendee	Score	8:46 AM
Molay Kumar Ruidas	1/1	✓
Aditi Goswami	1/1	✓
Akash Haldar	1/1	✓
Akash Singha	1/1	✓
Anandita Kundu	1/1	✓
Anshuman Kanri	1/1	✓
Arnab Bose	1/1	✓
Arnab Show	1/1	✓
Arpan Das Dan	1/1	✓
Arpan Pal	1/1	✓
Asha Garain	1/1	✓
Avinash Marandi	1/1	✓
Bikas Gorain	1/1	✓
Bulbul Barnwal	1/1	✓
CHIROPRIYA DAS	1/1	✓
Jyoti Ghosal	1/1	✓
Kumar Ansh	1/1	✓
Neha Dutta	1/1	✓
Pradipta Ghosh	1/1	✓
Priyanka Gorai	1/1	✓
Purnendu Ray	1/1	✓
Ranabir Goswami	1/1	✓
Riju Mondal	1/1	✓
RISHABH KUMAR SHAW	1/1	✓
Ritam Banerjee	1/1	✓
Ritul Das	1/1	✓
Rohan Goswami	1/1	✓
SANCHITA CHANDRA	1/1	✓
Sanjay Sarkar	1/1	✓
Shaptarshi Mukherjee	1/1	✓
Shreya Karmakar	1/1	✓
SHUBHAM CHOUDHURY	1/1	✓
SK SAYED AKTAR	1/1	✓
Soma Murmu	1/1	✓
Souvik Dey	1/1	✓
Sova Prasad	1/1	✓
SUBHADIP NAG	1/1	✓

Subham Barnwal	1/1	✓
subhashis chandra	1/1	✓
Sumon Roy	1/1	✓
Surajit	1/1	✓
Surajit Das	1/1	✓
Susmita Mondal	1/1	✓
Ujjwal Roy	1/1	✓
Avg: 1/1		

Attendance bot: dev(Pavan:p2pdops@gmail.com) on 2021-07-24 : 16:30: <https://meet.google.con>

Members present : 54

Attendee	Score	4:07 PM	4:26 PM
Molay Kumar Ruidas	2/2	✓	✓
Abinash Adhikari	2/2	✓	✓
Aditi Goswami	2/2	✓	✓
Anisha Zaminder	2/2	✓	✓
Ankita Mukherjee	2/2	✓	✓
ARINDAM HALDERGUPTA	2/2	✓	✓
Arnab Bose	2/2	✓	✓
Arnab Show	2/2	✓	✓
Arpan Das Dan	2/2	✓	✓
Arpan Pal	2/2	✓	✓
Asha Garain	2/2	✓	✓
Avinash Marandi	2/2	✓	✓
Bikas Gorain	2/2	✓	✓
Biswajit chakraborty	2/2	✓	✓
BISWAJIT DAS	2/2	✓	✓
Joyshree Bhattacharya	2/2	✓	✓
Manish prasad	2/2	✓	✓
Padmaja Pal	2/2	✓	✓
Partha Nayak	2/2	✓	✓
Ranabir Goswami	2/2	✓	✓
Rohan Goswami	2/2	✓	✓
sanchita bhattacharya	1/2	✓	✗
sharmistha maji	2/2	✓	✓
Shreya Karmakar	1/2	✓	✗
SHUBHAM CHOUDHURY	2/2	✓	✓
SK SAYED AKTAR	2/2	✓	✓
Soma Murmu	2/2	✓	✓
Souvik Dey	2/2	✓	✓
SOUVIK MUKHOPADHYAY	2/2	✓	✓
Sova Prasad	2/2	✓	✓
Subhadeep Das	2/2	✓	✓
SUBHADIP NAG	2/2	✓	✓
Subham Barnwal	2/2	✓	✓
Subham Burman	2/2	✓	✓
Tanaya Ghosh	2/2	✓	✓
Ujjwal Roy	2/2	✓	✓
abhas biswas	1/2	✗	✓

Akash Singha	1/2	✖	✓
Anamika Kumari	1/2	✖	✓
Ankit Jaiswal	1/2	✖	✓
Ayan Bhattacharjee	1/2	✖	✓
Harasit Roy	1/2	✖	✓
Jyoti Ghosal	1/2	✖	✓
Koushik Patra	1/2	✖	✓
Kumkum Mondal	1/2	✖	✓
Nur Aktar	1/2	✖	✓
Priya Bhandary	1/2	✖	✓
Priyanka Gorai	1/2	✖	✓
Riju Mondal	1/2	✖	✓
SANCHITA CHANDRA	1/2	✖	✓
Satbir Singh	1/2	✖	✓
SUBHRADIP ROY	1/2	✖	✓
SUDIP LAHA	1/2	✖	✓
Suman Khan	1/2	✖	✓

Avg: 1.63/2

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Attendance bot: dev(Pavan:p2pdops@gmail.com) on 2021-07-26 : 8:32: <https://meet.google.com/bck>

Members present : 49

Attendee	Score	8:11 AM	8:32 AM
Molay Kumar Ruidas	2/2	✓	✓
abhas biswas	2/2	✓	✓
ABHIRUP RUJ	1/2	✓	✗
Aditi Goswami	2/2	✓	✓
Akshay Mondal	2/2	✓	✓
Anisha Zaminder	2/2	✓	✓
Ankita Mukherjee	2/2	✓	✓
Anshuman Kanri	2/2	✓	✓
apurba Mondal	2/2	✓	✓
ARINDAM HALDERGUP	2/2	✓	✓
Arnab Bose	2/2	✓	✓
Arnab Show	2/2	✓	✓
Arpan Pal	2/2	✓	✓
Asha Garain	2/2	✓	✓
Avinash Marandi	2/2	✓	✓
Bikas Gorain	2/2	✓	✓
BISWAJIT DAS	2/2	✓	✓
Bulbul Barnwal	2/2	✓	✓
Harasit Roy	2/2	✓	✓
Isha Acharjee	2/2	✓	✓
Joyshree Bhattacharya	2/2	✓	✓
Kumkum Mondal	2/2	✓	✓
Megha Laha	2/2	✓	✓
Pallabi Dutta	2/2	✓	✓
Partha Nayak	2/2	✓	✓
Pradipta Ghosh	2/2	✓	✓
Ranabir Goswami	2/2	✓	✓
Ritul Das	2/2	✓	✓
Rohan Goswami	2/2	✓	✓
SANCHITA CHANDRA	2/2	✓	✓
Santanu Mandal	2/2	✓	✓
Sayon Kundu	2/2	✓	✓
sharmistha maji	2/2	✓	✓
Shibani Dhibar	2/2	✓	✓
Souvik Dey	2/2	✓	✓
SOUVIK MUKHOPADHY	2/2	✓	✓
Subhadeep Das	2/2	✓	✓

SUBHADIP NAG	2/2	✓	✓
Subham Barnwal	2/2	✓	✓
SUBHAM' s ART	2/2	✓	✓
subhashis chandra	2/2	✓	✓
suparna mondal	2/2	✓	✓
Surajit	2/2	✓	✓
Sutapa Tapadar	2/2	✓	✓
Ujjwal Roy	2/2	✓	✓
Abinash Adhikari	1/2	✗	✓
Rakhi Chowdhury	1/2	✗	✓
Ritam Banerjee	1/2	✗	✓
ROHAN ROY	1/2	✗	✓
Avg: 1.9/2			

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Date-02/08/2021

Members present : 43

Attendee	Score	8:14 AM	8:22 AM	Attendee	Score	8:14 AM	8:22 AM
Molay Kumar Ruida	2/2	✓	✓	SHUBHAM CHOUDHURY	2/2	✓	✓
abhas biswas	2/2	✓	✓	Soma Murmu	2/2	✓	✓
Aditi Goswami	2/2	✓	✓	Souvik Dey	2/2	✓	✓
Akash Halder	2/2	✓	✓	Subhadeep Das	2/2	✓	✓
Akash Singha	2/2	✓	✓	SUBHADIP NAG	2/2	✓	✓
Akshay Mondal	2/2	✓	✓	Subham Burman	2/2	✓	✓
Anisha Zaminder	2/2	✓	✓	subhashis chandra	2/2	✓	✓
Anshuman Kanri	2/2	✓	✓	suparna mondal	2/2	✓	✓
apurba Mondal	2/2	✓	✓	Tanaya Ghosh	2/2	✓	✓
Aritra Dey	2/2	✓	✓	Ujjwal Roy	2/2	✓	✓
Arnab Bose	2/2	✓	✓	Isha Acharjee	1/2	✗	✓
Arnab Show	2/2	✓	✓				
Arpan Das Dan	2/2	✓	✓				
Arpan Pal	2/2	✓	✓				
Asha Garain	2/2	✓	✓				
Avinash Marandi	2/2	✓	✓				
Ayan Bhattacharjee	2/2	✓	✓				
BISWAJIT DAS	2/2	✓	✓				
Bulbul Barnwal	2/2	✓	✓				
Harasit Roy	2/2	✓	✓				
Joyshree Bhattacharya	2/2	✓	✓				
Jyoti Ghosal	2/2	✓	✓				
Koushik Patra	2/2	✓	✓				
Pallabi Dutta	2/2	✓	✓				
Partha Nayak	2/2	✓	✓				
Pradipta Ghosh	2/2	✓	✓				
Riju Mondal	2/2	✓	✓				
Ritul Das	2/2	✓	✓				
Rohan Goswami	2/2	✓	✓				
ROHAN ROY	2/2	✓	✓				
SANCHITA CHANDRAN	2/2	✓	✓				
sharmistha maji	2/2	✓	✓				

Date- 20-09-2021
Members present : 29

Time-8 A.M

Attendee	Score	8:23 AM
Molay Kumar Ruidas	1/1	✓
aditi chaudhuri	1/1	✓
Aditi Goswami	1/1	✓
Akash Haldar	1/1	✓
Akash Singha	1/1	✓
Ankita Mukherjee	1/1	✓
apurba Mondal	1/1	✓
Aritra Dey	1/1	✓
Arpan Das Dan	1/1	✓
Arpan Pal	1/1	✓
Bikas Gorain	1/1	✓
Harasit Roy	1/1	✓
Joyshree Bhattacharya	1/1	✓
Kumkum Mondal	1/1	✓
Megha Laha	1/1	✓
Niladri Shekhar Das	1/1	✓
Pradipta Ghosh	1/1	✓
Rakesh Dhibar	1/1	✓
Ritul Das	1/1	✓
Rohan Goswami	1/1	✓
ROHAN ROY	1/1	✓
Satbir Singh	1/1	✓
sharmistha maji	1/1	✓
SHUBHAM CHOUDHURY	1/1	✓
Souvik Dey	1/1	✓
Souvik Mukhopadhyay	1/1	✓
subhashis chandra	1/1	✓
suparna mondal	1/1	✓
Ujjwal Roy	1/1	✓

Mission and Vision

The mission of the data science club is to enable high quality data science education, enhance employability, and industrial exposure.

The vision is to significantly expand the capacity of the students to implement data science techniques, learn cutting-edge computational tools, advanced programming and develop college-industry collaborations. This is to be accomplished by hands on learning and training opportunities, thus catalysing students' potential, building relationships with industry, and establishing connections with various academic/industrial organizations.

Beneficiaries of the Data Science Club: Final year students of all science and commerce faculties and others who handle big data.

Data Science using Python

Introduction:

Welcome and overview of the course. Introduction to the data science process and the value of learning data science.

Basics of Python Programming:

Brief background in python to get you up and running. If you are already familiar with python, you can skip this content.

Jupyter and Numpy:

Jupyter notebooks are one of the most commonly used tools in data science as they allow you to combine your research notes with the code for the analysis. After getting started in Jupyter, we'll learn how to use numpy for data analysis. numpy offers many useful functions for processing data as well as data structures which are time and space efficient.

Pandas:

Pandas, built on top of numpy, adds data frames which offer critical data analysis functionality and features.

Visualization:

When working with large datasets, you often need to visualize your data to gain a better understanding of it. Also, when you reach conclusions about the data, you'll often wish to use visualizations to present your results.

Mini Project:

With the tools of Jupyter notebooks, numpy, pandas, and Visualization, you're ready to do sophisticated analysis on your own. You'll pick a dataset we've worked with already and perform an analysis for this first project.

Statistics:

You will learn the foundations of statistics required for Data Science projects followed by practical classes with real life examples.

Machine Learning:

To take your data analysis skills one step further, we'll introduce you to the basics of machine learning and how to use scikit-learn - a powerful library for machine learning.

Final Project:

These weeks let you showcase all your new skills in an end-to-end data analysis project. You'll pick the dataset, do the data munging, ask the research questions, visualize the data, draw conclusions, and present your results.

Certification:

After successful completion of this course students will get certificate from the college.

TRIVENIDEVI BHALOTIA COLLEGE, RANIGANJ



[Govt. of West Bengal Sponsored]

Post: Raniganj, Dist: Paschim Bardhaman, Pin- 713347

NAAC Accredited B+ Grade College

Estd. 1957

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DATA SCIENCE SYLLABUS w.e.f. 22-03-2021

FOREWORD

TATHYA VIGHYAN: ASHIMER AHOBAAAN

Dear students, you must all have seen advertisements of Data Science courses in the Internet and so have some idea about the importance of Data Science as a lucrative career option. Keeping this in mind the authorities of Triveni Devi Bhalotia College, together with some enterprising and committed alumnae of the Department of Statistics, who are senior Data Science experts in industry, have taken the initiative to start a Data Science Club in the college to enhance the employment skills of students of our college, among other activities.

It is with this purpose that a fifteen to twenty –hour course is being initiated for students in the sixth semester. We hope you will benefit from this course, the details of which are given below.

It may be mentioned that after successful completion of the course students will be given a certificate by the Principal of T.D.B. College.

DATA SCIENCE LEARNING PATH

Module 1: Python

- Environment set-up
- Jupyter overview
- Python Numpy
- Python Pandas
- Python Matplotlib/seaborn

Module 2: Statistics

- Important statistical concepts used in data science
- Difference between population and sample
- Types of variables
- Measures of central tendency
- Measures of variability
- Coefficient of variance
- Skewness and Kurtosis

Module 3: Probability theory & Inferential statistics

- Probability distribution
- Testing of hypotheses

Module 4: Exploratory data analysis

- Data visualization-Univariate/Bivariate Analyses
- Missing value analysis
- Correlation matrix
- Outlier detection analysis

Module 5: Supervised machine learning

- Linear Regression
- Logistic regression
- Decision Tree
- Random Forest
- KNN Regression/Classification
- Support Vector Machine
- Gradient Boosting

Module 6: Unsupervised machine learning

- Hierarchical clustering
- K-means clustering
- Principal Component Analysis
- Association Rules

Module 7: Time Series Forecasting

- ARIMA
- Exponential Smoothing

Module 8: Survival Analyses

- Kaplan-Mayer
- Cox regression

Module 9: Natural Language Processing

- Sentiment Analyses
- Topic Modeling

Module 10: Machine learning scenarios/use cases

- Predictive Maintenance
- Fraud detection
- Sales Forecasting
- Intelligent Recommendation