



ST FRANCIS DE SALES COLLEGE

Permanently Affiliated to Bangalore University

Electronics City, Bengaluru - 100

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A FRANSALIAN INSTITUTE OF HIGHER LEARNING

Report on a Two Day Seminar on research and Application of Linear Algebra and Statistics in Data Science..

| | |
|---------------------------------|---|
| Title | Two Day Seminar on Research and Application of Linear algebra and Statistics in data sciences |
| Date of Event(s) | 08/10/2019 to 09/10/2019 |
| Department / Association | MATHEMATICS |
| Venue | SEMINAR HALL |
| Number of Participants | 28 |

| | |
|---------------------------------------|--------------|
| Resource Person(s) with qualification | Padmavathi V |
| Books (if published) | NA |

| | |
|--|----|
| Place of visit/ details of Industrial visit place (if applicable): | NA |
|--|----|

Report:

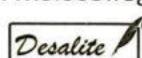
The Department of Mathematics, SFS COLLEGE Bengaluru Organized a Two Seminar on Research and Application of Linear algebra and Statistics in Data sciences On 08/10/2019 to 09/10/2019 The participants are Students including faculty members, research scholars. .

The seminar began with an inaugural function on 08/10/2019. The function was graced by Principal SFS College Bengaluru, who wished the Seminar a grand success. The inaugural session was followed by invited lectures. Talks on current research topics in Linear Algebra Application in data science and importance of statistics spread over several sessions of the Seminar on both days. The participants of the Seminar were immensely benefited by the invited talks arranged. It gave them new directions for research well as exposure to use Applications

The Seminar focuses on the fundamentals of Linear algebra and statistics relevant to learning, with the research topics on the applications of linear algebra in data science with some Examples and transductive learning.

Electronics City P.O., Bengaluru - 560 100

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Methods from Linear algebra have made an impact in Machine Learning recently through two avenues. The first arises when we view the data samples how we can analyses the data and by applying linear algebra concepts to give simple representation to study the data .

This view of the data can be used to motivate a number of techniques, including developing a better intuition for machine learning and deep learning algorithms and not treating them as black boxes. This would allow you to choose proper hyper parameters and develop a better model.

You would also be able to code algorithms from scratch and make your own variations to them as well. Isn't this why we love data science in the first place? The ability to experiment and play around with our models? linear algebra is the key to unlock a whole new world.

The reason for involving Statistics is through the representation of complex objects in simple way.. t is usually helpful to visualize data problems. Linear equations represent flat objects

The two day Seminar concluded with a valedictory function on 09/10/2019 which was presided by Principal and Vice Principal. SFS College Bengaluru The function ended with distribution of certificates to the participants.

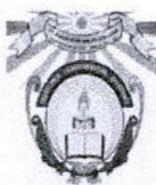
Name of the Reporter: Shilpa.B



Co-ordinator
Internal Quality Assessment Cell
St Francis de Sales College
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PRINCIPAL
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ATTENDENCE SHEET

DATE : 08/10/2019 TO 09/10/2019

EVENT : SEMINAR ON RESEARCH AND APPLICATION OF LINEAR ALGEBRA AND
STATISTICS IN DATA SCIENCES

| SL NO | NAME | ROLL NO | SIGNATURE |
|-------|--------------------|------------|----------------|
| 1 | SOHANI SHANKAR | 18NCSM8013 | Shankar |
| 2 | SUAIB IBRAHIM | 18NCSM8014 | Suaib |
| 3 | TABASSUM BANU | 18NCSM8015 | Banu |
| 4 | AROCKIA KULANDAI J | 18NCAEL001 | Kulandai J |
| 5 | SHASHIKALA | 18NCAEL002 | Shashikala |
| 6 | SUPRIYA SKYLIGHT V | 18NCAEL003 | Supriya V |
| 7 | VELANGANI JYOTHI A | 18NCAEL004 | Jyothi A |
| 8 | ABHISHEK. KP | 19NCC26001 | Abhishek |
| 9 | AKSHAY R | 19NCC26002 | Akshay R |
| 10 | ALLEN O JOLLY | 19NCC26003 | Allen O Jolly |
| 11 | AMJO JOSHY | 19NCC26004 | Joshy |
| 12 | ANUSHA. D | 19NCC26005 | Anusha. D |
| 13 | ANUSHKA PATHAK | 19NCC26006 | Anushka |
| 14 | ARCHANA R | 19NCC26007 | Archana R |
| 15 | ASHOK KUMAR | 19NCC26008 | Ashok |
| 16 | BHUVANA R | 19NCC26009 | Bhuvana R |
| 17 | CHANDANA G | 19NCC26010 | Chandana G |
| 18 | CHANDINI THOMAS | 19NCC26011 | Chandini |
| 19 | DEEPA G | 19NCC26012 | Deepta G |
| 20 | DEEPA R | 19NCC26013 | Deepa R |
| 21 | DEEPA. S | 19NCC26014 | Deepa |
| 22 | DEEPAK M | 19NCC26015 | Deepak. M. |
| 23 | DHANUSH. S | 19NCC26016 | Dhanush. S |
| 24 | HARSHITH. C.P | 19NCC26017 | Harshitha. C.P |
| 25 | HARSHITHA. N | 19NCC26018 | Harshitha. N |
| 26 | KARTHIK. V | 19NCC26019 | Karthik. V |
| 27 | KAVITHA. R | 19NCC26020 | Kavitha R |
| 28 | KAVYA. D | 19NCC26021 | Kavya. D |

