# St. Joseph's Degree College

Sunkesula Road, Kurnool

Organized by



# **Department of Statistics**

### Report on Dept. of Statistics Activities

JUNE-2024

**I. Kalyani** м.sc., Head of Department Department of Statistics

Composition of Department of Statistics Head of Department							
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Dr.K. Shantha Principal St. Joseph's Degree college Sunkesula Road, Kurnool-4

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1	"Enhancement Programme on Data Analytics" for the academic Year – (2024-2025)	1- 7			

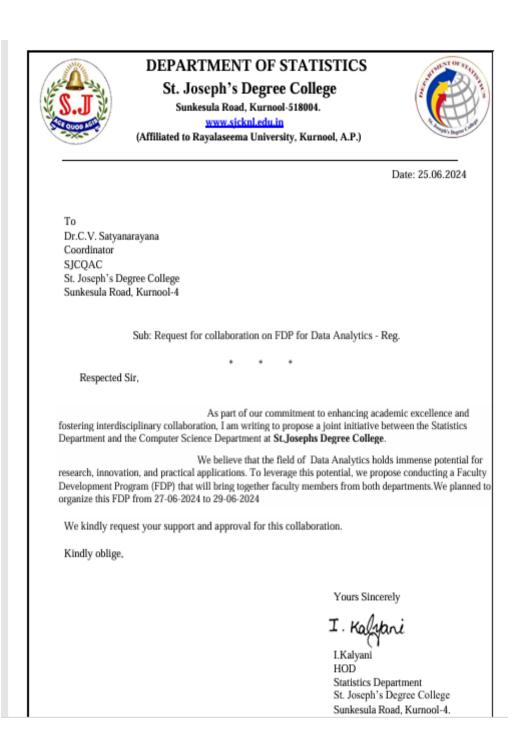
"Enhancement Programme on Data Analytics"

From 27-06-2024 to 29-06-2024

Academic Year

2024-2025

#### **Request Letter**



## Gist

An Enhancement programme on Data Analytics was conducted by statistics department (29-06-2024) with collaboration of department of computer science of St. Joseph's Degree College. Data analytics is a powerful tool that helps organizations harness their data for strategic advantages. By transforming data into actionable insights, businesses can navigate complex challenges and capitalize on opportunities in an increasingly data-driven world. In view of its vast scope our dept has come up with organizing an enhancement program to keep the staff trained in this subject to meet the forthcoming challenges.

#### **Objectives:**

- Identify trends and patterns in data to forecast future outcomes and behaviours.
- Enhance decision-making processes by providing insights based on data analysis.
- Optimize resource allocation and reduce costs by analysing spending patterns.
- Gain insights that can lead to a competitive edge in the market.

# The topics were covered as a part of this program:

#### Syllabus

Resource person Name	Day & Topic
Mr. A. Viswanath	Day 1:
	Introduction: Overview, Data Science,
	Big Data Characteristics, Architecture
	-Core Layers, Service layers; roles of
	data-centric projects, big data life
	cycle.
Mr. A. Viswanath	Day 2:
	Methods: Association rules, Apriori
	algorithm, overview of clustering, K-
	means algorithm, Regression-Linear,
	Logistic, Support Vector Machines,
	Classification- Decision Tree
	classification, Attribute selection,
	Naïve Bayes classification.
Mr. K. Raveendra	Day 3:
&	Pre-processing: Introduction,
Mr. P. Moulali	Measures of Central Tendency-Mean,
	Median, Mode, Sampling distribution,
	inferential statistics, ANOVA, feature
	selection- PCA.

# Attendance

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### Program photos



#### Outcomes of Program

- By analysing data on student performance and engagement, faculty can refine their teaching methods to better meet student needs.
- Analytics can reveal trends in faculty participation and satisfaction, helping to foster a more engaged teaching community
- Sharing data insights can promote collaboration among faculty, fostering a culture of shared best practices and innovation.
- Analytics can support long-term planning by identifying areas of strength and opportunities for growth within the faculty and program structure.