3. Seminar on Exploratory Data Analysis: Techniques and Visualization

Name of the Program	Seminar on Exploratory Data Analysis: Techniques and Visualization
Details of Resource Person	**Dr. Saptarshi Mondal,Assistant Professor, Dept. of Statistics, Bethune College, Kolkata.**
Organising Department	**Statistics & IQAC, BDC**
Venue	**Room no.-207**
Date	**23.03.2023**
Beneficiaries	**35**

Report of the Program

1 Summary: Exploratory Data Analysis (EDA) is a crucial step in the data science process, focusing on summarizing the main characteristics of a dataset. The techniques used in EDA include descriptive statistics, data visualization, and hypothesis testing. Descriptive statistics involve measures such as mean, median, mode, standard deviation, and correlation, providing a quantitative summary of the data. Data visualization techniques, such as histograms, scatter plots, box plots, and heatmaps, help in identifying patterns, trends, and anomalies within the data.

2 Aim :EDA aims to understand the data's underlying structure, detect outliers, test underlying assumptions, and identify relationships between variables. In addition, techniques such as data cleaning and transformation are essential to ensure that the data are accurate and consistent.

3 Strengths: Data visualization not only aids in initial data exploration but also in effectively communicating findings. Interactive visualizations can provide deeper insight and facilitate decision-making processes. In general, EDA is an iterative process that

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guides further data analysis, model selection, and hypothesis generation, ensuring that the subsequent steps in the data science workflow are based on a thorough understanding of the data.

Dr. Saptarshi Mondal presented his Paper

Poster/Brochure

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Department of Statistics & IQAC

SEMINAR ON
EXPLORATORY DATA ANALYSIS
TECHNIQUES & VISUALIZATION

Speaker

Dr. Saptarshi Mondal
Assistant Professor
Department of Statistics
Bethune College, Kolkata

23rd March 2023

Venue: Room No. 207
1:30 p.m. onwards

Dr. Indrila Guha
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