

INSTITUTE OF APPLIED STATISTICS

A Statistical Training & Research Institute



Presents

One-Month Online Certificate Programme on

DATA ANALYSIS USING SPSS

ABOUT THIS PROGRAMME

In the vast landscape of data analysis, SPSS emerges as a shining star, illuminating the path to uncover hidden insights from raw data. Whether you're a curious beginner or an experienced analyst, diving into the world of data excellence with SPSS can be an exhilarating journey. In this one month programme, we'll explore the fascinating realm of data analysis, decoding its significance, techniques, and practical application

**IBM
SPSS**

WHO SHOULD ATTEND ?

UG, PG, Doctors/Faculties, any Research scholar of any Medical or non-medical colleges/Universities.

REGISTRATION FEE :
2000/- INR Per Participant

**StatXpert-50
Batch-01**

FEATURES

- 📌 Evening Live Session.
- 📌 Lifetime Access of Recorded Lectures.
- 📌 E-Certificate of Completion to all participant.
- 📌 Online Quiz for Self Assessment.

01-31 OCTOBER, 2024

07:00PM -08:00PM (ONLINE)



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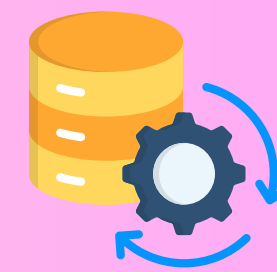
Introduction to SPSS

- Understand the purpose of SPSS in data analysis
- Analyzing survey data to identify trends
- Install SPSS software, Navigate the SPSS interface



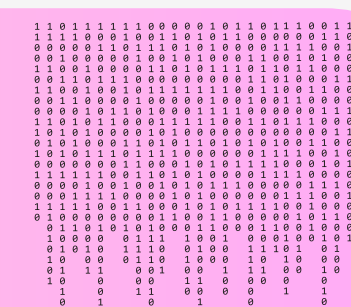
Data Handling in SPSS

- Import, Export of data
- Sorting, Merging of data
- Inserting, Splitting of data



Data Handling in SPSS

- Coding, Generating New Variable
- Dummy, Categorical & Semi-Continues Variables
- Replacing Missing Values



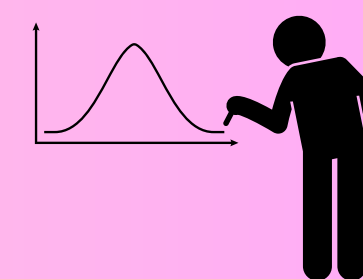
Data Analysis using SPSS

- Graphical & Tabular Presentation of Data)



Normality Test using SPSS

- P-P & Q-Q Plot for Normality Testing
- Histogram & Box-Plot for Normality Assessment
- Statistical Test for Normality Testing



Data Analysis using SPSS

- Descriptive Statistics
- Crosstab & Its use
- Custom Table, Sorting & Use of Split Function



Data Analysis using SPSS

- Parametric Tests

(T-Test (Independent), T-Test (Paired), One-Way ANOVA, Two-Way ANOVA, Repeated Measures ANOVA, Analysis of Covariance (ANCOVA), MANOVA (Multivariate Analysis of Variance), Factorial ANOVA, Hotelling's T-Squared Test, Z-Test)

Data Analysis using SPSS

- Non-Parametric Tests (Spearman Rank Correlation, Kendall's Tau, Chi-Square Test of Independence, Mann-Whitney U Test, Wilcoxon Signed-Rank Test, Kruskal-Wallis H Test, Friedman Test, Kolmogorov-Smirnov Test, Cochran's Q Test, Wilcoxon Rank Sum Test, Sign Test, McNemar's Test, Median Test, Jonckheere-Terpstra Test, Mantel-Haenszel Test)

Data Analysis using SPSS

- Correlation Analysis

(Pearson Correlation Coefficient, Rank Correlation, Partial Correlation, Canonical Correlation Analysis)

Data Analysis using SPSS : Regression Analysis

- Simple Linear Regression, Multiple Linear Regression, Logistic Regression, Polynomial Regression, Ridge Regression, Lasso Regression, Ordinal Regression, Poisson Regression, Multivariate Regression, Nonlinear Regression

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ABOUT INSTITUTION

Welcome to the Institute of Applied Statistics (IAS), A premier institute dedicated to advancing statistical knowledge, we are committed to fostering the development of human resources in the field of statistics. Our mission is to equip professionals nationwide with the skills needed to excel in data analysis and research. At Institute of Applied Statistics, we offer cutting-edge training in statistical tools and methodologies, empowering individuals across various industries to tackle complex challenges with confidence. Beyond training, we are actively involved in groundbreaking multidisciplinary research, pushing the boundaries of statistical science.

Our Vision: To be at the forefront of global statistical advancement, spreading statistical knowledge and enhancing statistical systems worldwide.

Our Mission:

- **Develop Skilled Professionals:** We aim to create a pool of trained experts ready to address emerging research challenges.
- **Tailored Training Programs:** We design and deliver specialized training for both statistical and non-statistical personnel, focusing on monitoring and evaluating large-scale projects.
- **Collaborative Development:** We collaborate with academicians, researchers, and industry professionals to develop training modules that meet specific needs.
- **Global Training Opportunities:** We organize international, national, and state-level training programs to support researchers and academics.
- **Consultative Expertise:** We provide expert consultation for conducting research, serving both government and private sectors.

Our Research & Development Schemes

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