

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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IBM SPSS

Introduction to IBM SPSS

- Overview of IBM SPSS software suite
- Understanding the role of SPSS in data analysis
- Installation and setup instructions
- Introduction to SPSS interface and navigation

Data Management in SPSS

- Importing data from different sources (Excel, CSV, databases)
- Data manipulation and cleaning techniques
- Variable and value labels
- Merging and appending datasets

Descriptive Statistics

- Measures of central tendency (mean, median, mode)
- Measures of dispersion (range, variance, standard deviation)
- Frequency distributions and histograms
- Summary statistics and data visualization

Inferential Statistics

- Introduction to inferential statistics

- Hypothesis testing concepts
- Parametric tests (t-tests, ANOVA)
- Non-parametric tests (Mann-Whitney U test, Kruskal-Wallis test)

Bivariate Analysis

- Correlation analysis (Pearson, Spearman)
- Simple linear regression
- Multiple regression analysis
- Interpreting regression output and diagnostics

Multivariate Analysis

- Factor analysis
- Cluster analysis
- Discriminant analysis
- Multivariate analysis of variance (MANOVA)

Logistic Regression

- Introduction to logistic regression
- Binary logistic regression
- Multinomial logistic regression
- Interpreting logistic regression output

Survival Analysis

- Kaplan-Meier survival analysis
- Cox proportional hazards regression
- Interpreting survival analysis output

Time Series Analysis

- Introduction to time series data
- Time series plots and patterns

- Forecasting techniques
- Time series analysis in SPSS

Advanced Techniques

- Structural equation modeling (SEM)
- Hierarchical linear modeling (HLM)
- Clustered robust standard errors
- Advanced data manipulation techniques

Customizing Output and Reporting

- Formatting output tables and charts
- Exporting results to different formats (Word, Excel, PDF)
- Automating analysis and reporting tasks
- Creating customizable templates

Introduction to SPSS Syntax

- Basics of SPSS syntax
- Writing and executing syntax commands
- Automating tasks using syntax scripts
- Debugging and troubleshooting syntax code

Practical Applications and Case Studies

- Real-world examples and case studies
- Applying SPSS in various industries (healthcare, marketing, finance)
- Hands-on projects and exercises
- Best practices for effective data analysis