
Advanced Statistical Analysis Using IBM SPSS Statistics (V26)

Duration: 2 Days Course Code: 0G09BG Delivery Method: Virtual Learning

Overview:

This course provides an application-oriented introduction to advanced statistical methods available in IBM SPSS Statistics. Students will review a variety of advanced statistical techniques and discuss situations in which each technique would be used, the assumptions made by each method, how to set up the analysis, and how to interpret the results. This includes a broad range of techniques for predicting variables, as well as methods to cluster variables and cases.

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Target Audience:

IBM SPS Statistics users who want to learn advanced statistical methods to be able to better answer research questions.

Objectives:

- Introduction to advanced statistical analysis
 - Grouping variables with Factor Analysis and Principal Components Analysis
 - Grouping cases with Cluster Analysis
 - Predicting categorical targets with Nearest Neighbor Analysis
 - Predicting categorical targets with Discriminant Analysis
 - Predicting categorical targets with Logistic Regression
 - Predicting categorical targets with Decision Trees
 - Introduction to Survival Analysis
 - Introduction to Generalized Linear Models
 - Introduction to Linear Mixed Models
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Prerequisites:

- Experience with IBM SPSS Statistics (version 18 or later)
 - Knowledge of statistics, either by on the job experience, intermediate-level statistics oriented courses, or completion of the Statistical Analysis Using IBM SPSS Statistics (V26) course.
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Content:

Introduction to advanced statistical analysis	<ul style="list-style-type: none">• Nearest Neighbors Analysis basics	<ul style="list-style-type: none">• Explore C;RT
• Taxonomy of models	<ul style="list-style-type: none">• Key issues in Nearest Neighbor Analysis	<ul style="list-style-type: none">• Compare Decision Trees methods
• Overview of supervised models	<ul style="list-style-type: none">• Assess model fit	Introduction to Survival Analysis
• Overview of models to create natural groupings	Predicting categorical targets with Discriminant Analysis <ul style="list-style-type: none">• Discriminant Analysis basics• The Discriminant Analysis model• Assumptions of Discriminant Analysis• Validate the solution	<ul style="list-style-type: none">• Survival Analysis basics• Kaplan-Meier Analysis• Assumptions of Kaplan-Meier Analysis• Cox Regression• Assumptions of Cox Regression
Grouping variables with Factor Analysis and Principal Components Analysis	Predicting categorical targets with Logistic Regression <ul style="list-style-type: none">• Binary Logistic Regression basics• The Binary Logistic Regression model• Multinomial Logistic Regression basics• Assumptions of Logistic Regression procedures• Test hypotheses• ROC curves	Introduction to Generalized Linear Models <ul style="list-style-type: none">• Generalized Linear Models basics• Available distributions• Available link functions
• Factor Analysis basics		
• Principal Components basics		
• Assumptions of Factor Analysis		
• Key issues in Factor Analysis		
• Use Factor and component scores		
Grouping cases with Cluster Analysis	Predicting categorical targets with Decision Trees <ul style="list-style-type: none">• Decision Trees basics• Explore CHAID	Introduction to Linear Mixed Models <ul style="list-style-type: none">• Linear Mixed Models basics• Hierarchical Linear Models• Modeling strategy• Assumptions of Linear Mixed Models
• Cluster Analysis basics		
• Key issues in Cluster Analysis		
• K-Means Cluster Analysis		
• Assumptions of K-Means Cluster Analysis		
• TwoStep Cluster Analysis		
• Assumptions of TwoStep Cluster Analysis		
Predicting categorical targets with Nearest Neighbor Analysis		

Further Information:

For More information, or to book your course, please call us on 030 - 60 89 444

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