Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Exploring and Analyzing Data with Splunk

CODE:	LENGTH:	PRICE:
SPL_EAADWS	16 Hours (2 days)	Request Price

Description

This course is for users who want to attain operational intelligence level 4, (business insights) and covers exploratory data analysis by using statistical tools and custom visualizations.

Objectives

▪ Analytics Framework
▪ Exploring and visualizing data
▪ Cleaning and Preprocessing Data
▪ Numerical and String based clustering
▪ Data Correlation
▪ Meta Transactions
▪ Detecting Anomalies ▪ Forecasting

Audience

Splunk users

Prerequisites

To be successful, students should have a solid understanding of the following courses:
▪ Intro to Splunk
▪ Using Fields
▪ Scheduling Reports and Alerts
▪ Visualizations
▪ Working with Time
▪ Statistical Processing
▪ Comparing Values
▪ Result Modification
▪ Leveraging Lookups and Sub-searches
▪ Correlation Analysis
▪ Search Under the Hood
▪ Intro to Knowledge Objects
▪ Creating Field Extractions ▪ Search Optimization
All these modules are available in the Splunk Power User Fast Start

Programme

Topic 1 – What is Data Science
▪ Define terms related to analytics and data science
▪ Describe the analytics workflow
▪ Describe Artificial Intelligence and Machine Learning
▪ Examine common Machine Learning myths
▪ Describe Splunk’s Machine Learning tools
Topic 2 – Exploratory Data Analysis
▪ Use bin and makecontinuous to restructure and visualize data
▪ Examine field statistics with fieldsummary
▪ Transform fields with eval and fillnull
▪ Clean text with the rex and cleantext commands

▪ Solve Anscombe's Quartet
▪ Apply boxplots and 3d scatterplots to visualize data
Topic 3 – Event Clustering
▪ Take a behavioral based approach to cluster data
▪ Cluster numerical fields using the kmeans command
▪ Cluster based of string similarity with the cluster command
▪ Find patterns in clusters
Topic 4– Correlations and Transactions
▪ Define correlation and co-occurrence
▪ Use SPL correlation commands
▪ Use the statistical tests from the Machine Learning Toolkit to correlate fields
▪ Use streamstats and chart commands to correlate data
Topic 5– Anomaly Detection
▪ Define Statistical Outliers
▪ Use Add-hoc methods of numerical anomaly detection
▪ Find numerical or categorical anomalies with the AnomalyDetection command
Topic 6 – Forecasting
▪ Define forecasting use cases
▪ Use the predict command to forecast future timeseries

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.