



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

Sie erreichen uns hier

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CODE:	LÄNGE:	PREIS:
SPL_SFAADS	4.48 Hours (0.56 Tage)	€1,500.00

Description

This 13.5 hour course (3 days a 4,5 hours) is for users who want to attain operational intelligence level 4, (business insights) and covers implementing analytics and data science projects using Splunk's statistics, machine learning, built-in and custom visualization capabilities.

Lernziel

Analytics Framework
Exploratory Data Analysis
Regression for Prediction
Cleaning and Preprocessing and Feature Extraction
Algorithms, Preprocessing and Feature Extraction
Clustering Data
Detecting Anomalies
Forecasting
Classification

Voraussetzungen

Splunk Fundamentals 1
Splunk Fundamentals 2
Splunk Fundamentals 3
or equivalent Splunk experience

Inhalt

Module 1 – Analytics Workflow
 Define terms related to analytics and data science
 Define the analytics workflow
 Describe common usage scenarios
 Navigate Splunk Machine Learning Toolkit
Module 2 – Exploratory Data Analysis
 Describe the purpose of data exploration
 Identify SPL commands for data exploration
 Split data for testing and training using the sample command
Module 3 – Predict Numeric Fields with Regression
 Differentiate predictions from estimates
 Identify prediction algorithms and assumptions
 Describe the fit and apply commands
 Model numeric predictions in the MLTK and Splunk Enterprise
 Use the score command to evaluate models
Module 4 – Clean and Preprocess the Data
 Define preprocessing and describe its purpose
 Describe algorithms that preprocess data for use in models
 Use FieldSelector to choose relevant fields
 Use PCA and ICA to reduce dimensionality
 Normalize data with StandardScaler and RobustScaler
 Preprocess text using Imputer, and NPR, TF-IDF, HashingVectorizer and the cluster command
Module 5 – Cluster Data

Define Clustering
Identify clustering methods, algorithms, and use cases
Use Smart Clustering Assistant to cluster data
Evaluate clusters using silhouette score
Validate cluster coherence
Describe clustering best practices
Module 6 – Anomaly Detection
Define anomaly detection and outliers
Identify anomaly detection use cases
Use Splunk Machine Learning Toolkit Smart Outlier Assistant
Detect anomalies using the Density Function algorithm
Optimize anomaly detection with the Local Outlier Factor
View results with the Distribution Plot visualization
Module 7 – Estimation and Prediction
Differentiate predictions from forecasts
Use the Smart Forecasting Assistant
Use the StateSpaceForecast algorithm
Forecast multivariate data
Account for periodicity in each time series
Module 8 – Classification
Define key classification terms
Use classification algorithms
 AutoPrediction
 LogisticRegression
 SVM (Support Vector Machines)
 RandomForestClassifier
Evaluate classifier tradeoffs
Evaluate results of multiple algorithms

Kurstermine

Auf Anfrage. Bitte [kontaktieren Sie uns](#)

Zusätzliche Information

Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.