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Splunk for Analytics and Data Science

CODE:	LENGTH:	PRICE:
SPL_SFADS	16 Hours (2 dage)	Request Price

Description

This 13.5-hour course 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.

Objectives

Topic 1 – Analytics Workflow

- Define terms related to analytics and data science
- Describe the analytics workflow
- Describe common usage scenarios
- Navigate Splunk Machine Learning Toolkit

Topic 2 – Training and Testing Models

- Split data for testing and training using the sample command
- Describe the fit and apply commands
- Use the score command to evaluate models

Topic 3 – Regression: Predict Numerical Values

- Differentiate predictions from estimates
- Identify prediction algorithms and assumptions
- Model numeric predictions in the MLTK and Splunk Enterprise

Topic 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, NPR, TF-IDF, and HashingVectorizer

Topic 5 – Clustering

- 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

Topic 6 – Forecasting Fields

- Differentiate predictions from forecasts
- Use the Smart Forecasting Assistant
- Use the StateSpaceForecast algorithm
- Forecast multivariate data
- Account for periodicity in each time series

Topic 7 – Detect Anomalies

- 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
- View results with the Distribution Plot visualization

Topic 8 – Classify: Predict Categorical Values

- Define key classification terms
- Identify when to use different classification algorithms
- Evaluate classifier tradeoffs
- Evaluate results of multiple algorithms

Audience

Splunk classes are designed for specific roles such as Splunk Administrator, Developer, User, Knowledge Manager, or Architect.

Prerequisites

To be successful, students should have a solid understanding of the following courses:

- Fundamentals 1, 2, & 3
- Advanced Searching & Reporting Or the following single-subject courses:
- What is Splunk?
- 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

- Introduction to Knowledge Objects
- Creating Field Extractions
- Search Optimization

Programme

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

Test and Certification

Our certification tracks provide comprehensive education for Splunk customer and partner personnel according to their areas of

Further Information

Instructor-led lecture with labs, delivered via virtual classroom or at your site.

Session Dates

På anmodning. [Kontakt os venligst](#)

Yderligere Information

[Denne træning er også tilgængelig som træning på stedet. Kontakt os for at finde ud af mere.](#)