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TRAINING OFFERING

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Splunk for Analytics and Data Science

CODE: LENGTH: PRICE:

SPL_SFADS 16 Hours (2 days) Request Price

Description

This 13.5-hour course is for users who want to a5ain 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

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 silhoue5e 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

• Describe algorithms that preprocess data for use in models

• Use FieldSelector to choose relevant fields

• 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

Identify anomaly detection use cases

· Comparing Values

· Result Modification

• Correlation Analysis

· Search Under the Hood

• Leveraging Lookups and Sub-searches

- 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 begäran, kontakta oss

Ytterligare information

Denna utbildning finns också som utbildning på plats. Kontakta oss för mer information.