DELLTechnologies

D-AA-OP-23

Dell Data Science Optimize

Certification Description

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Certification Overview

This certification is designed to build on the skills developed in Data Science Foundations and help aspiring Data Scientists continue to evolve and expand their skill sets. The main growth areas include advanced analytical methods, Hadoop (and Pig, Hive, HBase), Social Network Analysis, Natural Language Processing, and Visualization methods. The development of these skills and the use of these methods provide the data scientist the ability to identify and communicate conclusions and recommendations in order to solve business challenges across many domains.

Certification Requirements

To successfully complete this certification, a candidate must:

1. Have a sufficient knowledgebase/skill set through hands-on product experience and/or by consuming the recommended training.

2. Pass the Dell Data Science Optimize exam.

Note: These details reflect certification requirements as of date February 2, 2024.

The Proven Professional Program periodically updates Certifications to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

Dell Technologies Partners: Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Competencies provide partners with the ability to deliver services under their own brand or co-deliver with Dell Technologies. Tiered partners are eligible to obtain Services Competencies upon completing the specific requirements outlined in the [Services Competencies Matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

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Exam Overview
This exam focuses on MapReduce, the Hadoop Ecosystem, NoSQL, Natural Language Processing, Social Network Analysis, Data Science Theory and Methods, and Data Visualization.

Exam Topics
Topics likely to be covered on this exam include:

MapReduce (15%)
- MapReduce framework and its implementation in Hadoop
- Hadoop Distributed File System (HDFS)
- Yet Another Resource Negotiator (YARN)

Hadoop Ecosystem and NoSQL (15%)
- Pig
- Hive
- NoSQL
- HBase
- Spark

Natural Language Processing (NLP) (20%)
- NLP and the four main categories of ambiguity
- Text Preprocessing
- Language Modeling

Social Network Analysis (SNA) (23%)
- SNA and Graph Theory
- Communities
- Network Problems and SNA Tools

Data Science Theory and Methods (15%)
- Simulation
- Random Forests
- Multinomial Logistic Regression and Maximum Entropy

Data Visualization (12%)
- Perception and Visualization
- Visualization of Multivariate Data

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.

Duration
90 minutes

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Recommended Training

The following curriculum is recommended for candidates preparing to take this exam.

Please complete one of the following courses

Course Title	Course Number	Mode	Available
Advanced Methods in Data Science and Big Data Analytics	MR-1CP-ETAAMUSD	Instructor-Led	4/6/15
Advanced Methods in Data Science and Big Data Analytics - Video ILT	MR-1TP-ETAAMUSD- 966	Video ILT- Stream	5/11/16
Advanced Methods in Data Science and Big Data Analytics - Online ILT	MR-1LP-ETAAMUSD	Online ILT	4/19/16

Note: These exam description details reflect contents as of February 2, 2024.

Dell Technologies believes the information in this document is accurate as of its publication date. The information is subject to change without notice.