# Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000)

**Category:** AI, Data & Analytics | **Vendor:** Trivera Tech

**Duration:** 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

The®Data Science & Big Data Overview | Tools, Tech & Modern Roles in the Data-Driven Enterprise®is an introductory level course that introduces the entire multi-disciplinary Data Science team to the many evolving and related terms, with focus on Big Data, Data Science, Predictive Analytics, Artificial Intelligence, Data Mining, Data Warehousing. The overview explores the current state of the art and science, the major components of a modern data science infrastructure, team roles and responsibilities, and level-setting realistic possible outcomes for your investment.®® This goal of this course is to provide students with a baseline understanding of core concepts and technologies to a conversant level.

## About This Course

The Data Science & Big Data Overview | Tools, Tech & Modern Roles in the Data-Driven Enterprise is an introductory level course that introduces the entire multi-disciplinary Data Science team to the many evolving and related terms, with focus on Big Data, Data Science, Predictive Analytics, Artificial Intelligence, Data Mining, Data Warehousing. The overview explores the current state of the art and science, the major components of a modern data science infrastructure, team roles and responsibilities, and level-setting realistic possible outcomes for your investment. This goal of this course is to provide students with a baseline understanding of core concepts and technologies to a conversant level.

## Who Should Attend

Attendees should have prior exposure to Enterprise Information Technology. As well as familiarity with Relational Databases.

### Prerequisites & Entry Requirements

**General Prerequisites:**

This introductory-level / primer course is an overview intended for Business Analysts, Data Analysts, Data Architects, DBAs, Network (Grid) Administrators, Developers or anyone else in the data science realm who need to have a baseline understanding of some of the core areas of modern Data Science technologies, practices and available tools.

## Learning Outcomes

**Upon successful completion of this course, participants will be able to:**

This course provides a high-level view of a variety of core, current data science related technologies, strategies, skillsets, initiatives and supporting tools in common business enterprise practices. This list covers a general range of topics current to the time of course distribution. We will collaborate with your team to refine level of depth of coverage, understand areas of greater importance to your team, where you would like to add demos, etc.
Throughout the session you'll explore:
-Foundations: Grids & Virtualization; SOA, ESB / EMB, The Cloud
-The Hadoop Ecosystem: HDFS; Resource Navigators, MapReduce, Spark, Distributions
-Big Data, NOSQL, and ETL
-ETL: Exchange, Transform, Load
-Handling Data & a Survey of Useful tools
-Enterprise Integration Patterns and Message Busses
-Developing in Hadoop Ecosystem: R, Python, Java, Scala, Pig, and BPMN
-Artificial Intelligence and Business Systems
-Who's on the Team? Evolving Roles and Functions in Data Science-Growing your Infrastructure

## Detailed Course Outline

Foundations

Grids and Virtualization

Service-Oriented Architecture

Enterprise Service Bus

Enterprise Message Bus

The Cloud

The Hadoop Ecosystem

HDFS: Hadoop Distributed File System

Resource Negotiators: YARN, Mesos, and Spark; ZooKeeper

Hadoop Map/Reduce

Spark

Hadoop Ecosystem Distributions: Cloudera, Hortonworks, OpenSource

Big Data, NOSQL, and ETL

Big Data vs. RDBMS

NOSQL: Not Only SQL

Relational Databases: Oracle, MariaDB, DB/2, SQL Server, PostGreSQL

Key/Value Databases: JBoss Infinispan, Terracotta, Dynamo, Voldemort

Columnar Databases: Cassandra, HBase, BigTable

Document Databases: MongoDB, CouchDB/CouchBase

Graph Databases: Giraph, Neo4J, GraphX

Apache Hive

Common Data Formats

Leveraging SQL and SQL variants

ETL: Exchange, Transform, Load

Data Ingestion, Transformation, and Loading

Exporting Data

Sqoop, Flume, Informatica, and other tools

Enterprise Integration Patterns and Message Busses

Enterprise Integration Patterns: Apache Camel and Spring Integration

Enterprise Message Busses: Apache Kafka, ActiveMQ, and other tools

An Overview of Developing in Hadoop Ecosystem

Languages: R, Python, Java, Scala, Pig, and BPMN

Libraries and Frameworks

Development, Testing, and Deployment

Exploring Artificial Intelligence and Business Systems

Artificial Intelligence: Myths, Legends, and Reality

The Math

Statistics

Probability

Clustering Algorithms, Mahout, MLLib, SciKit, and Madlib

Business Rule Systems: Drools, JRules, Pegasus

The Modern Data Team

Agile Data Science

NOSQL Data Architects and Administrators

Developers

Grid Administrators

Business and Data Analysts

Management

Evolving your Team

Growing your Infrastructure

# Additional Course Details

Nexus Humans Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

### Q: What delivery options are available for Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

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### Q: How many CPD hours does this course provide?

The 1-day Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000) course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000) training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000)?

Yes, we provide corporate training, dedicated training, and closed classes for Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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### Q: What related terms do people search for?

Popular related searches include: Data Science

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### Q: Why choose Nexus Human for Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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### Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Data Science Overview | Technologies, Tools & Modern Roles in the Data-Driven Enterprise (TTDS6000) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.


## Nexus Human

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