

# Data Analytics, Big Data & Data Science:

Increasing Confidence in Business Decisions  
In an Uncertain Digital Economy

**A Holistic Approach  
to Optimise Your  
Workforce**

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**Comprehensive  
Data Science  
Learning Paths**

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**Power BI —  
Unlocking the Value  
of Your Data**

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# Top 3 Data Science Pain Points

What can you do to transform data frustrations into clarity and peace of mind?



## Hiring

Identifying the right job roles and hiring the right team is essential to the success of your data science team.



## Stakeholder Collaboration

Data science success requires a culture shift — not just a technology shift. Stakeholder buy-in, as well as understanding of their needs, is critical.



## Domain Knowledge

Understanding your organisation's data environment better informs limitations and improves predictive accuracy.

## Learning Tree's Data Science Training The Tools & Techniques to Make Better Business Decisions

Our data science training curriculum will teach your team how to create data-driven business strategies, and store, manage, process, and analyse large data sets.

Gain data science skills in:

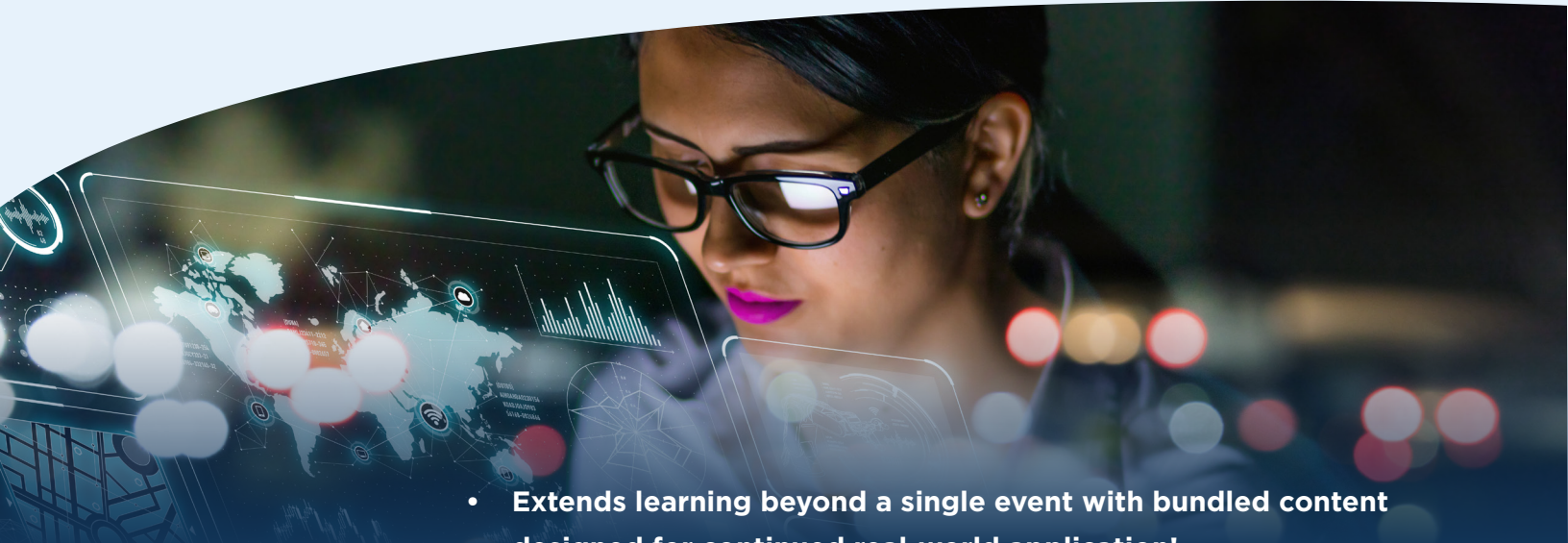
- » Artificial Intelligence
- » Deep Learning
- » Machine Learning
- » Power BI
- » Azure
- » Big Data
- » Statistics
- » IoT
- » Python
- » Tableau
- » Data Wrangling
- ... and more!



**NEW!**

# Data Science Training Bundles

Take your data science skills — and career — to the next level with multi-modal learning path bundles.



## Bundle Training Benefits:

- Extends learning beyond a single event with bundled content designed for continued real-world application!
- Exam Vouchers Included!
- 100% Virtual Attendance Available, plus Class Recordings via AnyWare®
- Expert Instructor Guidance & After-Course Coaching Included
- Trial Membership to our NEW Data Science Social Collaboration Space with exclusive Subject Matter Expert access!

## Choose from These Popular Topics:

### Data Science

Intro to Big Data  
Data Science, Machine Learning & AI w/Python  
Certified Python Programming Professional  
Certified Python Data Science Developer  
Certified Machine Learning Professional  
Certified Deep Learning Professional  
Specialist in Tableau for Data Science

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### Azure

Azure Data Scientist  
Azure AI Engineer  
Azure Data Engineer  
Azure Solutions Architect

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### Power Platform

Analysing Data with Power BI  
Power Platform Specialist

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**Learn More & Purchase at:**  
[www.LearningTree.co.uk/DSBundles](http://www.LearningTree.co.uk/DSBundles)

# Defining the Pieces of the Data Puzzle

## Explore the 6 Major Skills Areas that Make Up Data Science

### DATA ANALYTICS

is the most common use of data, involving extracting data from relational databases (e.g., SQL Server, Oracle) and presenting findings as reports and corporate dashboards.

#### SKILLS NEEDED

- Manipulate databases using SQL
- Use dashboard tools and design effective dashboards
- Utilise statistical tools to maintain data integrity
- Produce effective, clear charts that inform, rather than confuse, decision makers

### BIG DATA

describes working with data that is too large to be processed using standard (e.g., workstation, single server) tools. Popular platforms include Hadoop, Spark, and Tableau.

#### SKILLS NEEDED

- Operate and manage clusters of networked computers
- Maintain high availability of the cluster
- Understand how cyber security issues can affect big data
- Programming using enterprise languages, such as Java and Scala

### MACHINE LEARNING (ML)

involves training computers, through repeated presentation of observations and outcomes, to make predictions that are not obvious to a person.

#### SKILLS NEEDED

- Expertise modeling techniques/tools
- Understanding the statistical basis of algorithms
- Programming (Python or other ML language)
- Work closely with data scientists to ensure machine learning technology delivers results for the organisation

AI has been around since the 1950s, but today's AI researchers use cutting-edge tech like deep learning (aka, neural networks), Natural Language Processing (NLP), and image processing (used in self-driving cars).

#### SKILLS NEEDED

- Highly specialised by area of research and niche expertise
- Programming and writing code for machines
- Designing and developing machines and systems that can learn and apply knowledge without specific direction.

- Research, analytical, organisational, and critical thinking skills

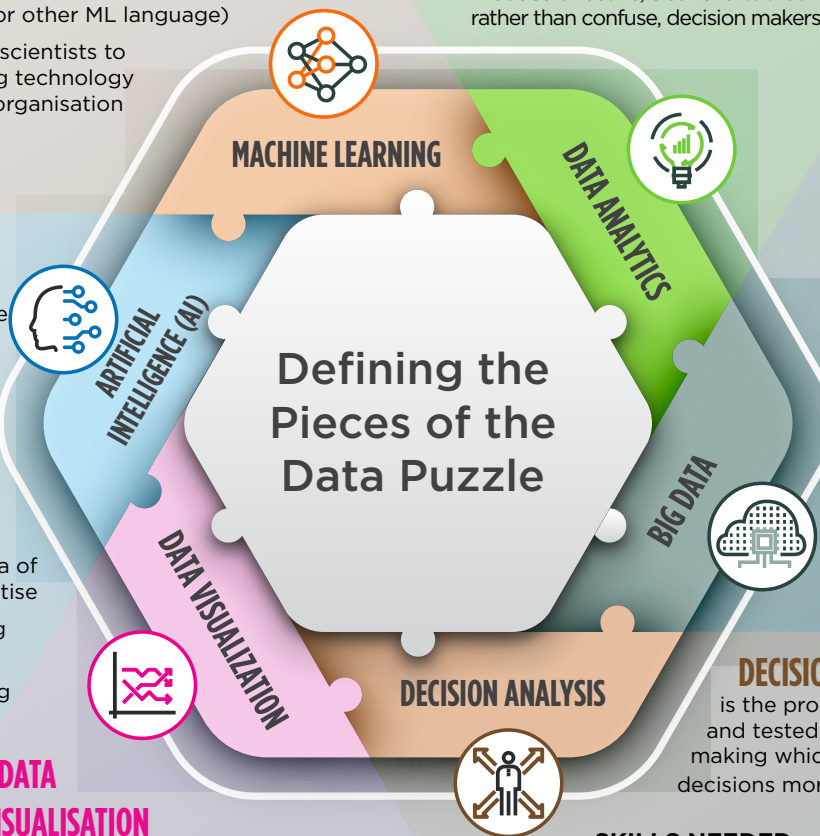
DATA VISUALISATION involves representing information visually (e.g., charts, tables, diagrams, illustrations) in order to bring data to life in a way that's easy to understand to drive better business decisions.

#### SKILLS NEEDED

- Expertise modeling techniques/tools
- Understanding the statistical basis of algorithms
- Programming (Python or other ML language)
- Work closely with data

scientists to ensure machine learning technology delivers results for the organisation

## Defining the Pieces of the Data Puzzle



# Learning Tree's Comprehensive Data Science Learning Paths

Course #	HR Administrator/L&D Specialist	Level
<a href="#">3656</a>	Preparing for a Digital Transformation Initiative	Foundation
Course #	Business Analyst/Business Architect	Level
<a href="#">1255</a>	Introduction to Decision Analysis	Foundation
<a href="#">1256</a>	Tableau Visual Analytics Training	Foundation
<a href="#">8649</a>	Power BI: Dashboard Training	Foundation
<a href="#">1264</a>	Introduction to Data Science, Machine Learning & AI using Python Training	Foundation
<a href="#">1274</a>	Data Visualisation with Python Training	Intermediate
<a href="#">1257</a>	Advanced Tableau Training	Advanced
<a href="#">8645</a>	Power BI: Administrator in a Day	Advanced
<a href="#">8646</a>	Power BI: Advanced Data Modeling and Shaping	Advanced
<a href="#">8648</a>	Advanced Visualisation with Power BI	Advanced
<a href="#">8650</a>	Power BI: Developer in a Day	Advanced
<a href="#">8651</a>	Hands-On Paginated Reports with Power BI	Advanced
Course #	Machine Learning Engineer/Enterprise Architect/Machine Learning Researcher	Level
<a href="#">1263</a>	Applied Data Science with Python and Jupyter	Foundation
<a href="#">1270</a>	Modern Deep Learning Techniques using TensorFlow	Foundation
<a href="#">1255</a>	Introduction to Decision Analysis	Foundation
<a href="#">1264</a>	Introduction to Data Science, Machine Learning & AI using Python Training	Foundation
<a href="#">1265</a>	Fundamentals of Statistics for Data Science	Foundation
<a href="#">1278</a>	Leveraging Deep Learning for Natural Language Processing Course	Intermediate
<a href="#">1277</a>	Applied Deep Learning with PyTorch	Intermediate
Course #	Data Wrangler/Data Science Programmer	Level
<a href="#">1905</a>	Introduction to Python Training	Foundation
<a href="#">1273</a>	Python Data Wrangling	Foundation
<a href="#">925</a>	Introduction to SQL Course	Foundation
<a href="#">1264</a>	Introduction to Data Science, Machine Learning & AI using Python Training	Foundation
<a href="#">1263</a>	Applied Data Science with Python and Jupyter	Foundation
<a href="#">1277</a>	Applied Deep Learning with PyTorch	Intermediate
<a href="#">1906</a>	Advanced Python: Best Practices and Design Patterns	Advanced
Course #	Data Engineer/Data Architect/Data Designer/Big Data Developer/IoT Engineer Developer	Level
<a href="#">1273</a>	Data Wrangling with Python Training	Foundation
<a href="#">1263</a>	Applied Data Science with Python and Jupyter	Foundation

TO LEARN MORE, VISIT [LEARNINGTREE.CO.UK/DATASCIENCE](https://learningtree.co.uk/datascience)  
OR CALL **0800 282 353**

# Learning Tree's Comprehensive Data Science Learning Paths

<a href="#">1250</a>	Introduction to Big Data Training	Foundation
<a href="#">1279</a>	Azure Synapse Analytics	Intermediate
<a href="#">1261</a>	Building Enterprise Solutions with MongoDB (Team Training Only)	Intermediate
<b>Course #</b>	<b>Framework/Database Administrator</b>	<b>Level</b>
<a href="#">1250</a>	Introduction to Big Data Training	Foundation
<a href="#">1261</a>	Building Enterprise Solutions with MongoDB (Team Training Only)	Intermediate
<a href="#">1279</a>	Azure Synapse Analytics	Intermediate
<b>Course #</b>	<b>Quantitative Researcher/Data Visualisation Designer</b>	<b>Level</b>
<a href="#">1255</a>	Introduction to Decision Analysis	Foundation
<a href="#">1256</a>	Tableau Visual Analytics Training	Foundation
<a href="#">1265</a>	Fundamentals of Statistics for Data Science	Foundation
<a href="#">1264</a>	Introduction to Data Science, Machine Learning & AI using Python Training	Foundation
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<a href="#">1257</a>	Advanced Tableau Training	Advanced
<a href="#">8645</a>	Power BI: Administrator in a Day	Advanced
<a href="#">8646</a>	Power BI: Advanced Data Modeling and Shaping	Advanced
<a href="#">8648</a>	Advanced Visualisation with Power BI	Advanced
<a href="#">8650</a>	Power BI: Developer in a Day	Advanced
<a href="#">8651</a>	Hands-On Paginated Reports with Power BI	Advanced
<a href="#">1277</a>	Applied Deep Learning with PyTorch	Intermediate
<b>Course #</b>	<b>Data Scientist</b>	<b>Level</b>
<a href="#">1264</a>	Introduction to Data Science, Machine Learning & AI using Python Training	Foundation
<a href="#">1905</a>	Introduction to Python Training	Foundation
<a href="#">1265</a>	Fundamentals of Statistics for Data Science	Foundation
<a href="#">1277</a>	Applied Deep Learning with PyTorch	Intermediate
<a href="#">1278</a>	Leveraging Deep Learning for Natural Language Processing Course	Intermediate
<b>Course #</b>	<b>Data Analyst</b>	<b>Level</b>
<a href="#">1264</a>	Introduction to Data Science, Machine Learning & AI using Python Training	Foundation
<a href="#">1273</a>	Python Data Wrangling	Foundation
<a href="#">1263</a>	Applied Data Science with Python and Jupyter	Foundation

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Learning Tree's Data Science & Analytics experts have designed role-specific learning paths that provide you with the knowledge and skills to implement, manage, and enhance your organisation's big data strategy. **Click to view as Interactive Learning Paths >**

<a href="#">4509</a>	Introduction to Python for Data Analytics	Foundation
<a href="#">1274</a>	Data Visualisation with Python Training	Intermediate
<a href="#">195</a>	Excel Data Analysis Training	Intermediate
<b>Course #</b>	<b>Cloud Specialist</b>	<b>Level</b>
<a href="#">1694</a>	Big Data on AWS Training	Intermediate
<a href="#">1695</a>	Data Warehousing on AWS Training	Intermediate
<a href="#">1274</a>	Data Visualisation with Python Training	Intermediate
<a href="#">195</a>	Excel Data Analysis Training	Intermediate
<b>Course #</b>	<b>Management Team</b>	<b>Level</b>
<a href="#">1255</a>	Introduction to Decision Analysis	Foundation
<a href="#">3656</a>	Preparing for a Digital Transformation Initiative	Foundation



## On-Demand Webinars

### Data Wrangling with Python

In this on-demand webinar, Learning Tree Data Science Curriculum Dean Chris Mawata explores why Python is the most popular language for revolutionizing data operations with high-level programming, data visualization, machine learning algorithms, and more.

[Watch Now ▶](#)



#### Chris Mawata, Ph.D.,

Learning Tree Data Science Curriculum Dean

Chris has over 35 years of IT experience including 17 years of teaching at the university level and 20 years of training Java, Big Data, and AI. As a Learning Tree instructor, Chris has authored six courses. As a consultant he runs a 20-node cluster on which he has several Big Data frameworks installed. He has published peer-reviewed papers in image processing, artificial intelligence, and pure mathematics.

### Implementing End-to-End Machine Learning Lifecycle Workflows on Azure

From pre-processing to learning to deployment - machine learning goes through many phases. In this course, you will learn how developers and data scientists at all skill levels can use Azure Machine Learning for MLOps, Interoperability and Responsible ML in their projects.

[Watch Now ▶](#)



#### John Younie

Featured Learning Tree Data Science Instructor

John is a Military Veteran with over 22 Years of Service. Prior to becoming a dedicated IT Geek, John was an Aircraft Engineer in The Royal Air Force working on multiple aircraft types including the Phantom F4J, Tornado GR1, and GR4 fast jets and the Chinook helicopter. It was the move from Aircraft Engineer to Data Engineer and working on Aircraft Data and Databases that enabled John to focus on all things IT, including Programming (FORTRAN, C++, VB), Database Design and Data Wrangling.



# High-Performance Training & Implementation Solutions From Learning Tree

## Technology Brands

Adobe	IBM	Oracle	SAP
AWS	Lean Six Sigma	Red Hat	VMware
Cisco	Microsoft	Salesforce	

## IT & Management Training Topics

Agile & Scrum	Data Science & Big Data	Linux & UNIX	Power BI
Apple Programming	DevOps	Microsoft Dynamics 365	Project Management
Azure	FAC-P/PM	Microsoft Office	Python
Business Analysis	ITIL®	Microsoft Windows Server and Windows 10	SharePoint
Business Intelligence	ITSM	Mobile App Development	Software Development
Cloud Computing	Java	.NET / Visual Studio	SQL Server
Communication Skills	Leadership & Professional Development	Networking	Web Development & Design
Cyber Security			

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