

# TRAINING AZURE DATABRICKS

We are in the middle of a huge shift in how people build data analytics platforms. Tools that were once deeply complex and unapproachable have been democratized and made available to data professionals from any background. **Azure Databricks** is a best-in-breed tool for bringing the huge power and flexibility of Data Lakes together with the management and control of Data Warehouses – and we can help you harness its full potential.

Our **Applied Databricks** training is delivered by Databricks Certified experts, deeply experienced in Azure analytics solutions and Apache Spark. We have built this course over numerous client engagements, tailoring it to the skillsets needed to adopt a modern spark-driven solution.

It will teach you how to implement different scenarios in Databricks, but most importantly it will tell you why, when to implement and when not to implement a function or feature.

This course is designed to take a data professional with zero python/spark experience and prepare them for their first Databricks project. You will leave this course with all the skills you need to get started on your Big Data Journey.

**This course has been updated for Spark 3.0** and features advanced functionality such as *Adaptive Query Execution*, *GraphFrames* and *Delta* on Spark 3.0

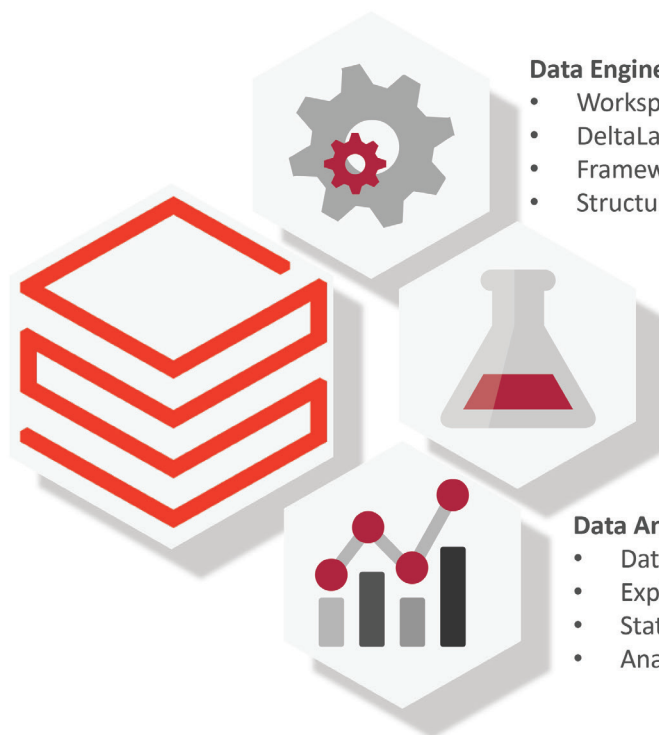
## AGENDA

### Databricks Fundamentals Day 1

- Big Data & Spark
- Databricks Workspace
- Languages & Clusters
- Reading Data

### Databricks Fundamentals Day 2

- Data Transformation Deep Dive
- Writing Data
- Capstone Lab



## DATABRICKS FOUNDATIONS DAY 1

Understanding the foundations is the bedrock of success in Apache Spark. On Day-one, we focus on theory and applied knowledge before moving to diving deep on how you work with data, reading and working with heterogeneous datasets. Databricks can work with most file formats and we show you how. We are hands on from the start of the day.

## DATABRICKS FOUNDATIONS DAY 2

Day-two adds layers of complexity, becoming much more hands-on as students work with Spark transformations, writing data out in different ways, and paying attention to performance. At the end of the two days, you will have all the skills required to understand how to work get started with Azure Databricks.

## DATABRICKS SPECIALISTS – ENGINEERING

Our Engineering specialism is a two-day deep-dive at the more detailed configuration & management of Azure Databricks. We dive into the guts of the Databricks Delta and Data Engineering best practices. This is an intense two-days of Data Engineering. After attending the Data Engineer specialism you will be setup to build and deploy your own metadata driven parallel processing engine.

## DATABRICKS SPECIALISTS – ANALYSTS

Our Analyst day is slightly different to the other courses – the morning follows a similar path, looking at data visualization and exploration tools. The afternoon takes a more open, workshop format with students tackling a number of open-ended labs, discussing their solutions and raising questions/scenarios with the instructor.

## DATABRICKS SPECIALISTS – SCIENTISTS

The Data Science specialism is another two-day course and assumes a general working knowledge of data science approaches. It is designed to teach beginner/existing data scientists how to translate these approaches to a scaled, parallel platform. We cover advanced topics such as distributed Deep Learning, Graph processing, time-series and most importantly how to manage models in production with MLFlow.

We recommend that everyone starts with the foundations and then picks the specialism which is best suited to their job role. If you want to be a Spark Superhero then you can always do the full 7 days.

*“Very good and understandable explanations of quite complex stuff. A very good kickoff to get started with Databricks. Great combination of theory and real life experiences.”*

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**ADVANCING ANALYTICS**.CO.UK

## ABOUT ADVANCING ANALYTICS

We are a consultancy based in the UK who help global clients meet their *Advanced Analytics* objectives. We focus on Microsoft technologies and specialise in solving problems using Microsoft Azure and Databricks. By championing modern technologies, we are helping move the industry forward, either applying deep data engineering techniques or innovative data science solutions, we combine the best of both worlds for our customers.

We focus on three core pillars:

- ◆ **Advisory** - We will help you scope it
- ◆ **Delivery** - We will help you build it
- ◆ **Education** - We will help you understand it

## JUDGE FOR YOURSELVES

At *Advancing Analytics*, we think the best way to show you that we know what you're talking about, is to talk about it. A lot - You can find our *experts* at events or sharing their knowledge on *YouTube* and the *Data Science in Production* podcast.

We are known in the industry for **thought-leadership** and **bleeding-edge delivery**, we work directly with the Microsoft engineering teams, to bring you long-term insight.

One of our values is investing in our community, we share our thoughts and findings on the *Advancing Analytics* blog. Why not take a look.

*"The sessions were engaging, the content was easy to understand and pitched at the right level."*

## HOW WE DELIVER COURSES ONLINE

We have recently converted all our courses to be delivered remotely. We all consume information in different ways. Whether you're a hands-on learner, an auditory or visual learner, we have your needs catered for with extensive labs, deep theory, ample time for deep discussion and technical demonstrations. You can expect to find the following on our courses:

- ◆ **Flexible Learning Objectives** - We can adapt to meet your current needs.
- ◆ **Interaction** - Ask questions live, always with an opportunity to follow up
- ◆ **Labs and Exercises** - Practical exercises, stretch goals and handy references
- ◆ **Show & Tell** - Collaborative working / Interactive whiteboarding
- ◆ **Quizzes & Prizes** - If you needed more incentive, you could win Lego!

Explore and register for  
*Advancing Databricks*



Gold Data Analytics  
Gold Data Platform  
Silver Cloud Platform



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