



The S&A
Transform
Group.

A close-up photograph of a woman with long, wavy brown hair, wearing black-rimmed glasses and a beige sweater over a white collared shirt. She is smiling and looking slightly to the right. The background is a soft, out-of-focus office setting.

Data & AI Consulting and Training Solutions

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Introduction and Overview of the **Data Practice**

Driving Data in Digital Transformation: What We Offer

Established in 2009, The S&A Transform Group, (formerly known as The Strategy & Architecture Group) is a leading provider of Business, Technology & Digital Consulting, Solutions and Professional Services. As a challenger consulting Firm, we offer a credible alternative and more personal service than traditional top4 organisations. We partner with our clients to drive strategy and transformation across Business, Technology and Digital domains. The S&A Group of companies includes:



S&A Boardroom



S&A Resourcing



S&A Consulting



S&A Capital Ventures



S&A Projects & Solutions



Over a Decade of Industry Experience

With over a decade of industry experience the S&A Transform Group has successfully built and delivered transformative solutions that drive innovation and efficiency across various sectors. Our data and AI practice is prioritizing products and services, that offer the highest value to clients, align with market demand, and leverage the latest advancements in technology.

Our Data Practice is designed to empower your digital transformation journey by harnessing the full potential of data. We offer a comprehensive suite of services to ensure your data is secure, accessible, and actionable, driving informed decision-making and innovative growth.

Our Values

Diverse

We are stronger together. Our differences are our strength. We always seek to find the right person for the right opportunity.

Aspirational

Excellence in training with world-class recruitment that responds to industry change and guides careers from start to finish.

Entrepreneurial

We value pioneering spirit, commercial acumen, 'thinking outside the box' and those who really make a difference.

Authentic

We value those who really care and take personal pride in their work – and we do too.





We at the S&A Transform Group understand the Necessity of Change Management – because it helps us to:



Minimize Resistance



Enhance Communication



Boost Employee Engagement



Ensure Smooth Transitions



Maximize Adoption and Utilization

Range of Services

We at the S&A Transform Group are focussed on delivery and creating solutions to business problems by:

Helping You to Ask Better Questions

Since the 4th Industrial Revolution, we have seen an unquenchable thirst for capturing data. But in order to galvanise this ASSET we must ensure that a curious mindset is adopted. We need to ask a variety of different questions to leverage the 'why' and the 'what' so that we can diligently create successful outcomes in the 'how'.

“After spending the last 7 years in the DATA space I have heard countless battle cries from customers and clients about -Siloed data sources, lack of controls and poor leadership.

In order to find solutions, it has to be an internal job. One of the reasons why I joined the S&A Transform Group was because the business model allows for creativity, curiosity, and collaboration. Our Consulting team are here to bring those attributes to your business and find bespoke solutions.”

- Lucy Lynch

Overview of Four Pillars of Data Practice

Data Strategy and Excellence in Governance

- + Data maturity assessments
- + Data Excellence frameworks
- + Data management solutions

Advanced Analytics and Business Intelligence

- + Predictive and prescriptive analytics
- + Data visualization and reporting
- + Self-service BI platforms

Artificial Intelligence and Machine Learning

- + AI strategy and implementation
- + Custom ML model development
- + AI-driven process automation
- + Ethical Frameworks

Cloud Data Solutions

- + Cloud migration strategies
- + Cloud data warehousing
- + Cloud-based analytics solutions

Consulting and Implementation Services

Solution Design and Architecture

We specialise in designing scalable and efficient data and AI architectures tailored to each client's unique needs. Our expertise ensures that solutions are robust, flexible, and future proof.

Implementation & Deployment

Our team excels in executing projects and ensuring the smooth deployment of solutions. We manage end-to-end implementation processes, minimizing downtime and maximizing effectiveness.

Training and Support

Training and Support:

Through our sister company, S&A Academy...

Training & Apprenticeships in Technology, Science & Business >

Training programs

Comprehensive training programs and ongoing support. Our blended learning model combines online modules, hands-on-workshops, and real world projects to ensure successful adoption and proficiency.

Partner with S&A and take the first step towards transforming your business with expert project management.

Introduction to Data Academy

The **Data Academy purpose** is to bring learners together so that they can explore their creativity, assess their critical thinking skills and engage in learning which will pique their curiosity.

What Makes us Truly Excellent?

Not only are our rating by clients and learners themselves **excellent but** all of our Data courses will have a masterclass in Change Management – as we want to leave a legacy for the future by competently enhancing our learning requirements today.

As a testament to the work we are doing in the Education Sector we are thrilled to announce our Brand Partnership with Women in Data.

“Women in Data® is proud to support our brand partner S & A Group as they launch their data apprenticeships (Data Technician Level 3, Data analytics Level 4, Data Engineering, Level 5 and AI Data Specialist, Level 7) Apprenticeship programmes offer new and innovative pathways into careers in the Data and Tech industry and by providing the Women in Data® community with access to these programmes, we can continue to fix the broken pipeline and encourage more women into analytics and engineering roles.”

- Fiona Sweeney, Partnerships Director



Our Apprentice Programmes in:

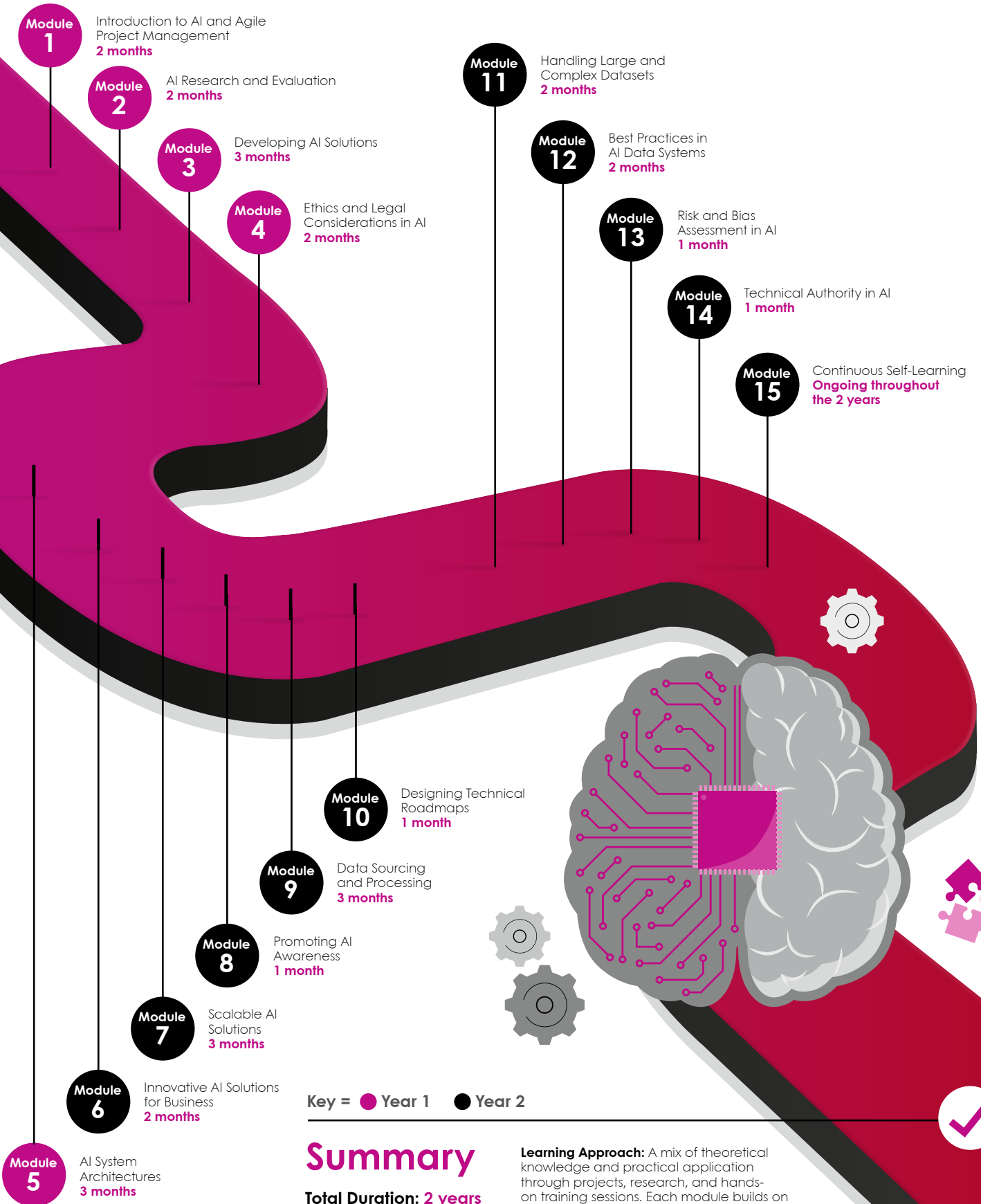
Data Analysis Level 4

- + Identify Business Problems
- + Communication /storytelling Skills to non-technical stakeholders
- + Analytical Mindset & Skills
- + Coding skills in Python and R
- + Data Excellence

Data Engineering Level 5

- + Data management
- + Data quality and security
- + Advanced analytics
- + Supporting data-driven decision-making processes

L7 Artificial Intelligence (AI) Data Specialist - 2 Years



Summary

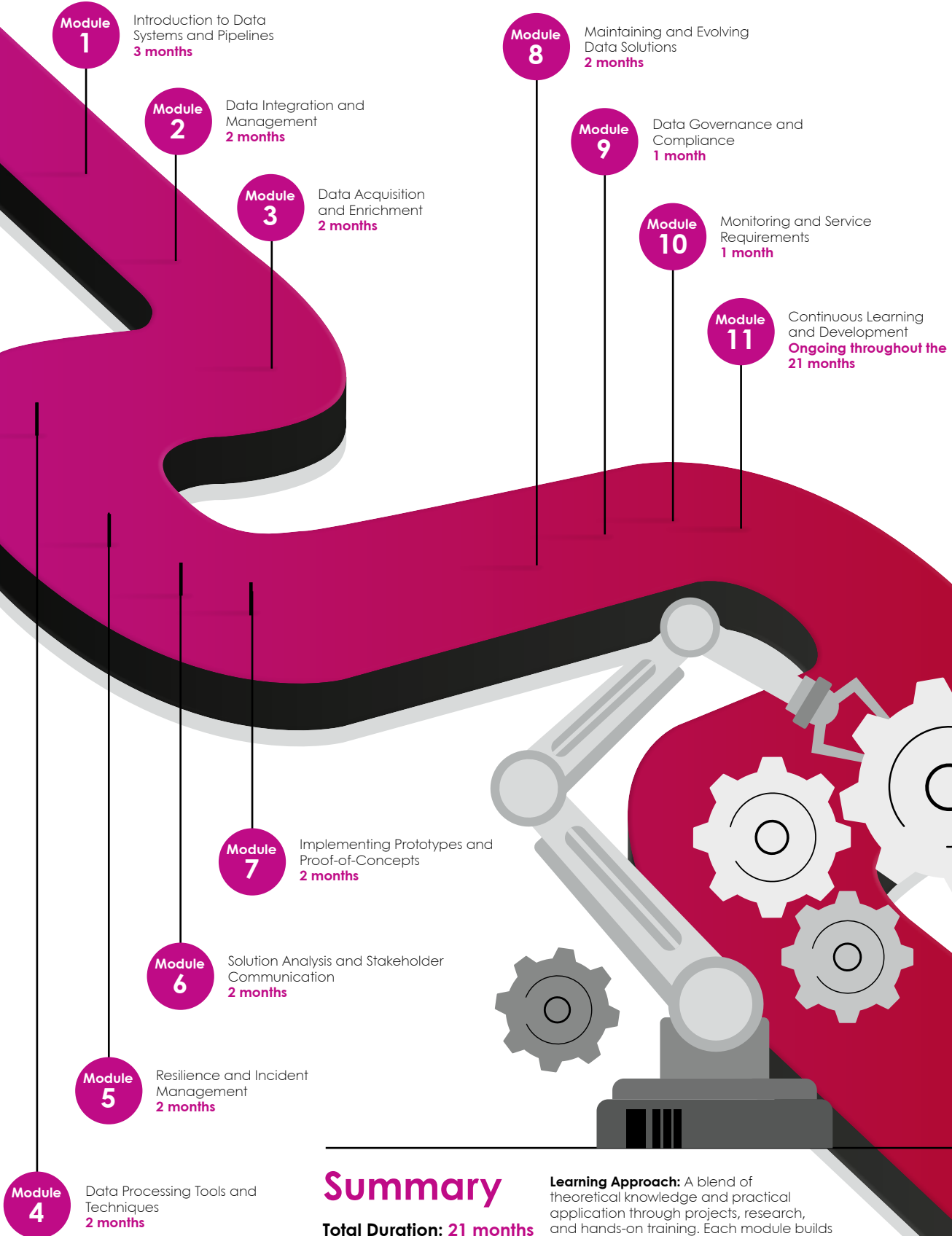
Total Duration: 2 years
Total Modules: 15

Learning Approach: A mix of theoretical knowledge and practical application through projects, research, and hands-on training sessions. Each module builds on the previous ones, ensuring a coherent and comprehensive apprenticeship journey.



L5 Data Engineer Apprenticeship

21 months



Summary

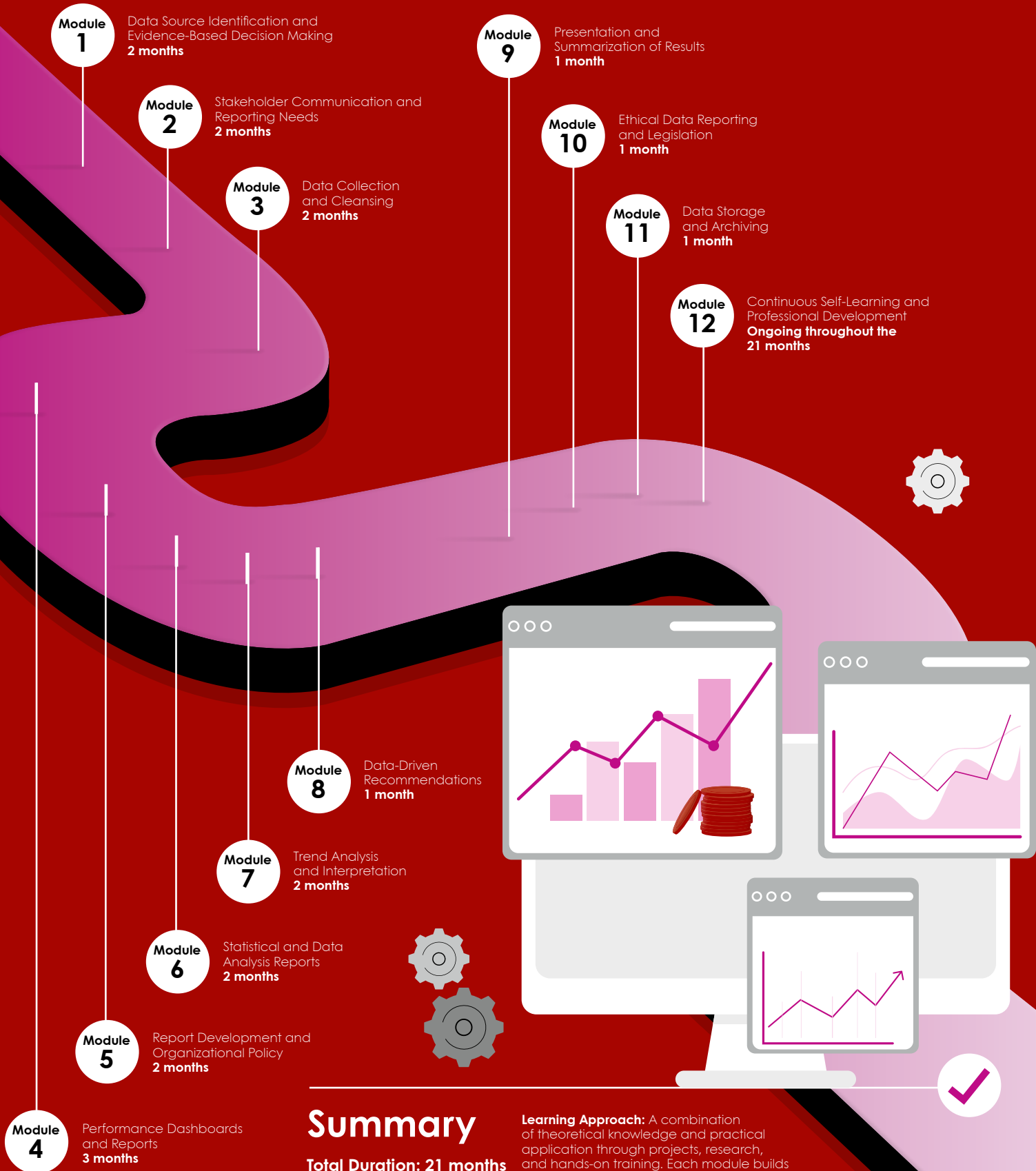
Total Duration: 21 months

Total Modules: 11

Learning Approach: A blend of theoretical knowledge and practical application through projects, research, and hands-on training. Each module builds on the previous ones to ensure a coherent and comprehensive apprenticeship journey.

L4 Data Analyst Apprenticeship

21 months



Summary

Total Duration: 21 months
Total Modules: 12

Learning Approach: A combination of theoretical knowledge and practical application through projects, research, and hands-on training. Each module builds on the previous ones, ensuring a cohesive and comprehensive apprenticeship experience.

Commercial Courses

Clients can pick between 2 – the total for different packages.

Data Engineering Commercial Course

1 Introduction to Data Engineering

- + Overview of Data Engineering
- + Key Responsibilities and Skills
- + Data Lifecycle Management
- + Data Engineering vs Data Science

2 Programming for Data Engineers

- + Python Programming Basics
- + Advanced Python Techniques
- + Java or Scala for Data Engineering
- + Scripting and Automation

3 SQL for Data Engineers

- + Basics of SQL
- + Advanced SQL Queries
- + Database Design and Normalization
- + Indexing and Query Optimization

4 Data Warehousing

- + Data Warehousing Concepts
- + Star and Snowflake Schemas
- + Data Warehousing Solutions
- + OLAP vs OLTP

5 ETL and Data Pipelines

- + ETL vs ELT
- + Designing Data Pipelines
- + Tools and Frameworks
- + Monitoring and Managing Data Pipelines

Intermediate Modules

6 Big Data Technologies

- + Introduction to Big Data
- + Hadoop Ecosystem
- + Apache Spark
- + Kafka and Streaming Data

7 NoSQL Databases

- + Introduction to NoSQL
- + Types of NoSQL Databases
- + Working with MongoDB Use Cases for NoSQL

8 Cloud Platforms for Data Engineering

- + AWS Data Services
- + Google Cloud Platform
- + Azure Data Services
- + Setting Up and Managing Cloud Data Infrastructure

9 Data Governance and Security

- + Data Quality Management
- + Data Privacy and Compliance
- + Data Security Best Practices
- + Auditing and Monitoring Data Pipelines

Advanced Modules

10 Advanced Data Engineering with Spark

- + Advanced Spark Programming
- + Optimizing Spark Jobs
- + Spark Streaming
- + Integrating Spark with Other Tools

11 DevOps for Data Engineers

- + CI/CD for Data Pipelines
- + Infrastructure as Code (IaC) with Terraform
- + Monitoring and Logging
- + Containerization with Docker and Kubernetes

12 Machine Learning Engineering

- + Introduction to Machine Learning for Engineers
- + Building and Deploying ML Pipelines
- + ML Model Management and Monitoring
- + Tools

13 Data Engineering on Kubernetes

- + Introduction to Kubernetes
- + Running Data Workloads on Kubernetes
- + Managing Data Pipelines with Kubernetes
- + Tools

Elective Modules

14 Graph Databases

- + Introduction to Graph Databases
- + Working with Neo4j
- + Graph Data Modeling
- + Use Cases for Graph Databases

15 Real-time Data Processing

- + Introduction to Real-time Data Processing
- + Tools
- + Real-time Data Architectures
- + Use Cases and Applications

16 DataOps and Agile Data Engineering

- + Introduction to DataOps
- + Agile Methodologies for Data Engineering
- + Task and Time Management
- + Version Control with Git

17 Advanced SQL Techniques

- + Complex Queries and Joins
- + Window Functions
- + Common Table Expressions (CTEs)
- + SQL Performance Tuning

18 Advanced Python for Data Engineering

- + Object-Oriented Programming (OOP) in Python
- + Functional Programming Concepts
- + Advanced Libraries: Dask, PyArrow
- + Performance Optimization Techniques



Data Analyst Commercial Courses

1 Basics of Data Analytics

- Module 1:** What is Data Analytics?
- Module 2:** What is the Role of a Data Analyst?
- Module 3:** Getting Started with Python
- Module 4:** Solving Real-World Problems with Python
- Module 5:** Getting Started with SQL
- Module 6:** Solving Real-World Problems with SQL

2 Data Wrangling and Descriptive Analytics

- Module 7:** Gathering Data
- Module 8:** Web Crawling and Scraping
- Module 9:** Data Wrangling
- Module 10:** Data Visualisation Principles and Best Practices

3 Diagnostic Analytics and Exploratory Data Analysis

- Module 11:** Probability Theory
- Module 12:** Anomaly Detection and Explanation
- Module 13:** Sampling, Resampling, and Hypothesis Testing
- Module 14:** Regression Analysis

4 Predictive Analytics

- Module 15:** Fundamentals of Predictive Analytics
- Module 16:** Supervised Learning, Part 1
- Module 17:** Supervised Learning, Part 2
- Module 18:** Hyperparameter Tuning
- Module 19:** Unsupervised Learning

5 Prescriptive Analytics

- Module 20:** Introduction to Prescriptive Analytics
- Module 21:** Discrete Optimisation
- Module 22:** Nonlinear Optimisation
- Module 23:** Communicating Results with Data - Data Visualisation/ Storytelling

Bespoke Packages

All of our courses can be packaged into commercial courses. For example our Data Engineering course can be taught for 3 different levels.

We have a proven concept over delivery, aligning training material to each client to ensure it effectively develops their data teams ensuring changes can be actioned effectively.

The modules are taught through a series of online and classroom sessions. For example Data Engineering:

- + 1-5 modules fundamentals
- + 6-9 as an intermediate
- + 10-18 as an advanced

We offer bespoke courses across Data Engineering, Analysis, Cyber and AI.





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