

[Project] Data Analyst Apprenticeship Level 4

Duration

Target for completion of 15 months

Delivery

80% workplace learning / 20% classroom-based & online training

By 2030, £600bn will be invested in infrastructure projects, and yet we struggle to leverage experience from one project and apply it to the next. Organisations are turning to advanced analytics to extract deeper insights from project data.

However, there is a shortage of people who have the skills to apply data science in a project delivery environment, which will be exacerbated as organisational demands for data insights grows. Project Data Analysts will automate burdensome tasks and release capacity for higher value activities. They will derive insights that shape decision making with the objective of fulfilling the project requirements on time and within budget. They will provide the predictive insights that will transform how projects are managed and learn to extract and manipulate data. It has the potential to be game changing!

Job Profile

The primary role of a Data Analyst is to collect, organise and study data to provide business insights. Data Analysts are typically involved with managing, cleansing, abstracting, aggregating and analysing data. They work across a variety of projects providing solutions to a range of customer / stakeholder issues. They then make recommendations to improve business performance.

Project Managers apply knowledge, skills, tools and techniques to project activities with the objective of fulfilling the project requirements on-time and within budget.

This apprenticeship will give you the skills to identify business challenges, extract and manipulate data to provides insights into these challenges, begin to develop predictive analytics and optimise project performance.

Typical Job Roles: Data Analyst, Data Manager, Data Scientist, Data Modeller, Data Architect, Data Engineer.

Candidate Profile

Entry Qualifications: Either / Or

- Minimum of 2 A-Levels (including Maths).
- Level 3 Apprenticeship Qualification.
- Level 3 BTEC (or equivalent).
- A good grasp of Statistics is also desirable.

These are a guideline and ultimately employers will assess suitability of staff for training.

Personal Qualities:

- You will be an enthusiastic team player, with a strong desire to learn and share knowledge.
- You will be able to work unsupervised for periods of time to complete project-based training.

Technical Experience:

- You will be comfortable with a range of IT systems and software and ideally have some experience of retrieving, collating, manipulating and presenting data for analysis and reporting purposes.
- Some programming and coding experience would be advantageous.

Course Outline



Cloud Solutions, Languages, Algorithms & Tools

Unit

Overview

Implementation

Governance & Assurance
Data Security & GDPR
Potential Barriers
Bias

Problem Solving

Use cases & user stories
Methods

Project Management

Introduction to Project Management
Project Controls
Complexity
Use cases

Data Analytics

Introduction to Statistics
Data Fundamentals
Quality & Completeness
Data Cleansing
Extract - Transform - Load
Data Integration
Data Analysis

Data Engineering

Data Models & Architecture
Databases
Full Stack Development

Data Science

Machine Learning Fundamentals
Applied Machine Learning

Extracting Insights

Storytelling
Business Intelligence (including dashboards)

How does it work?

On the job experience: You will work for an organisation under their supervision, gaining hands on experience with real data and helping to solve cutting edge project-related challenges.

Project-based training: With the support of a mentor you will undertake classroom-based and online learning, completing exercises and challenges using an array of data tailored to a project environment.

Community events: You will have the opportunity to attend community Hackathons and Meetups to ensure you remain plugged in to the latest thinking.

Benefits

- Build critical skills and confidence in data science within project delivery.
- Gain valuable, practical experience with real challenges to enhance your future career prospects.
- Receive support throughout from professionals who are at the cutting edge, and driving industry change.
- Continue to be paid a salary and have your training costs covered for the duration of the apprenticeship.
- Obtain a nationally recognised qualification equivalent to a foundation degree.

For further information or to apply, please contact us.

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