Title: Data Science Apprentice (Level 6)

Full Time, 37.5 hours per week

Reports to: Data Scientist

Entry requirements: 3 A-levels to include Maths (Please note that applicants from other learning backgrounds or with relevant industry experience will be considered on a case by case basis)

Must have GCSE English (Grade C or above)

Office location: Agilysis Limited Offices, Banbury

Job Purpose

As a data science apprentice, you will be part of our Analytics Team where you will play a key role in organising and drawing insights from road safety and related data. Our work is evolving from traditional data storage and analysis methodologies into new technologies which enable us to deliver greater insight for our clients. Your role will be to work with our lead Data Scientist on existing projects and help the team to identify new opportunities in the UK and overseas.

Our apprenticeship allows you to study for an academic qualification while working and learning alongside respected, technical professionals and producing outputs that will make a difference to people's lives.

Key Responsibilities

The aim of this position is to develop skills over the space of four years as part of the apprenticeship. As such, responsibilities will change over time. Initially, the key responsibilities will be:

- Perform data engineering: create and handle datasets for analysis
- Use tools and techniques to source, access, explore, profile, pipeline, combine, transform and store data
- Identify and use an appropriate range of programming languages and tools for data manipulation, analysis and visualisation
- Develop reproducible analysis and robust code, working in accordance with software development standards, including security, code quality and version control
- Use analysis and models to inform and improve outcomes, building models and validating results with statistical testing: perform statistical analysis, correlation vs causation, feature selection and engineering, machine learning, optimisation, and simulations, using the appropriate techniques for the problem.
- Communicate and disseminate outputs effectively to a range of audiences
- Develop and maintain collaborative relationships
- A commitment to keeping up to date with current thinking and maintaining personal development, including collaborating with the data science community.

Scope and Scale

The role will principally focus on using data science techniques to aid the delivery of analytical products to Agilysis clients, as well as bespoke research projects. There will be substantial opportunities to develop by gaining valuable hands-on experience working on data science projects and taking part in training where available.

Performance Expectations

The post holder will be appraised by their supervisor and will be responsible for regular delivery of projects. They will exhibit a degree of autonomy and should be able to work in accordance with agreed policies and procedures.

Approval & Review

Signed:

Date: 04/06/2021

Post approved by: Richard Owen
This job description is due for review on: TBC

Title*:* Data Science Apprentice

Key competencies

Scale 0 – 4 (4 = Very high, 3 = High, 2 = Moderate, 1 = Low, 0 – Not required)

Business	Degree of Competence				
	0	1	2	3	4
Communication		X			
Strategy and planning	X				
Commercial awareness	X				
Service provision	X				
Leadership and initiative		X			

Management	Degree of Competence				
	0	1	2	3	4
People	X				
Projects		X			
Finance	X				
Change	X				

Risk	X				

Education & Training	Degree of Competence				
	0	1	2	3	4
Educated to A-Level or equivalent					X
English language skills, both written and verbal				X	

Key	Degree of Competence				
	0	1	2	3	4
Microsoft Office Suite				X	
Flexible working			X		
Organisational and time management skills			X		
Ability to follow defined procedures and processes				X	
Innovative problem-solving approach				X	
Collaboration and communication skills				X	

Technical	Degree of Competence				
	0	1	2	3	4
Numeracy and logical reasoning				X	

Data Science				X	
Python / R / other programming			X		
Databases			X		