

Data Analytics – Central London Healthcare

Level 2 & 3 – Intermediate to Advanced Data Analytics

Please note that we are able to use your own data sources and sets, ensuring that this programme is completely tailored to your and your requirements.

	Long Description	Short Description
Day 1	Introduction to data analytics Numeracy & Data literacy skills Basic statistics Methods and basic formulas Work based investigation definition. What might be a question?	Data Preparation (Data Collection, Cleaning & Pre-processing)
Day 2	Importance of data quality Preparation of data Constructing data in a spreadsheet Work based investigation development. Associated data.	Basic Statistics for Analysis
Day 3	Data sources Reliability/Quality Understanding the structure of data Preparing data & cleaning techniques Consistency & Validity Business requirements Understanding stakeholder requirements and expectations Defining the question Identifying and acquiring the data	Data Cleaning and Manipulation
Day 4	Deeper in to Data Quality What is Metadata Creating and defining data structure Programming in BI Building a dashboard Merging and Appending data Validate the data Data consistency	Programming Power BI and Dashboards
Day 5	Basics of Machine learning and AI Structing the data – Formatting & Consistency What story does the data show? Navigating deeper in to the data Consolidate the data sources	Creating the data story

Day 6	Other Data Analytics programming (R & Python) Data Analysis Expressions (DAX) Using BI to explore the data Power BI AI tools Visualisations, statistics Expectation vs Result Documentation and process validation Presentation skills Create narrative of the data Conclusions and recommendations	Exploring the data insights
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