
Accelerate People

Associated KSB	Pass Criteria	Criteria Not Met
K23, S3, S17	Considers and selects from a range of appropriate principles, techniques and solutions to enhance the robustness of decisions at all stages.	☐
S24, K6	Correctly selects and applies development, research methodology and project management techniques to engage with customers and solve the business problem being addressed.	☐
K23, S3, S17	Critically evaluates the arguments, assumptions, abstract concepts and data to make business focussed recommendations.	☐
K23, S3, S17	Critically evaluates the performance of developed AI and machine models and the steps taken to mitigate sources of error and bias.	☐
K23, S3, S17	Demonstrates how, from the range of possible solutions presented, they contributed to identifying the optimal solution.	☐
K3, K1, K5, S11, S15, S18, K26	Describes how they applied appropriate scientific and technological methods for machine learning, AI and data science solutions, services and platforms to deliver business outcomes outlining successes and challenges.	☐
S4, K28, B2, S7, B6, S5, S27	Describes how they have analysed information and data, using questioning and discussions with subject matter experts to scope new AI and data science requirements.	☐
S4, K28, B2, S7, B6, S5, S27	Describes how they have worked with a range of technical and non-technical stakeholders adapting their approach successfully to meet their diverse needs.	☐
K23, S3, S17	Explains how they implement data curation and data quality controls in line with organisational and regulatory requirements.	☐
S4, K28, B2, S7, B6, S5, S27	Explains how to work autonomously and collaboratively with multidisciplinary teams indicating when each would be appropriate.	☐
S4, K28, B2, S7, B6, S5, S27	Explains how to work with software engineers to ensure suitable testing and documentation processes are implemented.	☐

Associated KSB	Pass Criteria	Criteria Not Met
S22, S10, S25, S9, S2	Manipulates and analyses complex datasets and critically evaluates arguments, assumptions, abstract concepts and data (that may be incomplete) to make recommendations and to enable a business solution or range of solutions to be achieved.	☐
S22, S10, S25, S9, S2	Selects and uses datasets, programming languages, tools and scientific methodologies to research business problems, providing a clear justification for their selection.	☐
S4, K28, B2, S7, B6, S5, S27	Written and verbal communication is clear, structured and appropriate for the audience.	☐

Associated KSB	Distinction Criteria	Criteria Not Met
K3, K1, K5, S11, S15, S18, K26	Appraises AI and/or Data solutions and explains the risks and implications of the process, alternative approaches and ways to address them.	☐
K14, K13	Articulates a commercial awareness of organisational priorities. Explains how the practical trade-offs in implementing an AI or data science solution for the particular business context have been addressed and shape the solution accordingly to optimise outcomes.	☐
S24, K6	Can evidence suitable methodology and tools have been selected with understanding of the impact of this choice on working practice, along with the risks to continuity of working practice that may arise if such solutions are not utilised.	☐
K23, S3, S17	Critically evaluates and adapts practice making recommendations for communicating technical methodology.	☐
S4, K28, B2, S7, B6, S5, S27	Evaluates solutions and explains the risks and implications of the AI data science requirements and alternative approaches and ways to address them.	☐
S4, K28, B2, S7, B6, S5, S27	Explains how they adapted their approach with a range of technical and non-technical stakeholders and in different situations in order to achieve the best outcome for the business.	☐

Associated KSB	Distinction Criteria	Criteria Not Met
K3, K26, K1, S11, S15, S18, K5	Explains the rationale for selecting particular technical solutions, including the relevant consideration of scientific benefit and suitability for working practices.	☐
K23, S3, S17	Explains when they have effectively communicated technical information in a team context which has influenced others and impacted positively on decisions or working practices.	☐

AM2: Professional Discussion

Associated KSB	Pass Criteria	Criteria Not Met
B5, B8	Analyses how they take responsibility for their own and their team's currency of knowledge and skills, their professional and personal growth and development.	☐
K21, K11, K17	Describes how the potential roles and impact of AI and data science could affect own organisation, industry and society.	☐
K21, K11, K17	Describes how they have applied solutions, demonstrated awareness and explained the changes and trends that have led to the enhancement the working practices within their organisation and other members of the team.	☐
K19, S26, S20, K25, K16, K7, S1, S19, K18, K22, S16	Describes how to use statistical, AI and machine learning methodologies such as data mining, supervised/unsupervised machine learning, natural language processing and machine vision to meet business objectives.	☐
K19, S26, S20, K25, K16, K7, S1, S19, K18, K22, S16	Describes the relationship between mathematical principles and core techniques in AI and data science within the organisational context.	☐
K29, B3, S12	Evaluates the regulatory, ethical, and legal requirements that affect implementation of solutions including the need for accessibility for all users and diversity of user needs.	☐

Associated KSB	Pass Criteria	Criteria Not Met
K21, K11, K17	Explains how they have assessed and addressed the potential business impact of ethical issues relating to AI and Data Science, the way procedures and methods are selected, and the unintended consequences to the business when they are applied.	☐
B4, K10, S6, S14, S23, B7, S28, S8, K8, B1	Explains how they have developed their professional working practices and leadership techniques in regards to AI and data science and how this has improved organisational practice.	☐
B4, K10, S6, S14, S23, S28, S8, B7, K8, B1	Explains how they have made independent impartial decisions respecting the opinions and views of others in complex, unpredictable and changing circumstances to benefit the business.	☐
K19, S26, S20, K25, K16, K7, S1, S19, K18, K22, S16	Explains how they have used programming languages and modern machine learning libraries for commercially beneficial scientific analysis, simulation and data engineering to meet business needs. Uses applied research and data modelling to design and refine the infrastructure and architectures to deliver secure, stable and scalable data products; including enterprise, private and public cloud resources and services.	☐
B4, K10, S6, S14, S23, S28, S8, B7, K8, B1	Explains how they have worked with software engineers to ensure suitable testing and documentation processes are implemented in line with organisational requirements.	☐
B5, B8	Explains how they selected and applied the most effective/appropriate AI and data science techniques to solve a complex business problem in line with organisational and regulatory requirements.	☐
B4, K10, S6, S14, S23, B7, S28, S8, K8, B1	Explains how they share and disseminated AI and data science practices across organisations to improve industry practice.	☐
K19, S26, S20, K25, K16, K7, S1, S19, K18, K22, S16	Explains how to design algorithms for accessing and analysing large amounts of data, including Application Programming Interfaces (API) to different databases and data sets.	☐

Associated KSB	Pass Criteria	Criteria Not Met
K19, S26, S20, K25, K16, K7, S1, S19, K18, K22, S16	Explains how to solve problems and evaluate software solutions via analysis of test data and results from research, feasibility, acceptance and usability testing in line with organisational requirements.	☐
K21, K11, K17	Explains the impact, consequences and risks of non-compliance to the business.	☐
B4, K10, S6, S14, S23, B7, S28, S8, K8, B1	Justifies their choice of techniques, explaining the risks and benefits and offers an alternative to technical and non-technical audiences.	☐

Associated KSB	Distinction Criteria	Criteria Not Met
B4, K10, S6, S14, S23, S28, S8, B7, K8, B1	Critically analyses the wider social context and current issues and trends, applying the findings with justification and shares these with the wider community.	☐
K19, S26, S20, K25, K16, K7, S1, S19, K18, K22, S16	Explains when they have challenged the norm through investigating and proposing a solution and the impact this had.	☐

AM3: Technical Test

Associated KSB	Pass Criteria	Criteria Not Met
K4, K24, S21, K20, K2	Describes appropriate means of exposure, linking, storage, analysis and visualisation of complex datasets.	☐
K27, S13, K15	Describes the appropriate resources and architecture needed to solve a business problem within given constraints.	☐
K4, K24, S21, K20, K2	Describes the key theoretical and technical aspects which underpin AI and data science, ensuring effective identification, delivery and implementation.	☐
K12, K9	Describes the relevant ethical, legal, professional and regulatory constraints in the context of an AI solution and outlines how ethical issues impact on the wider social context of AI, data science and related technologies	☐

Associated KSB	Pass Criteria	Criteria Not Met
K4, K24, S21, K20, K2	Differentiates between the types of uncertainty associated with the outputs of data collection and analysis.	☐
K4, K24, S21, K20, K2	Outlines how choice of dataset and methodologies applied could be a source of error and bias.	☐
K27, S13, K15	Selects and applies appropriate methodologies and engineering principles to manage the design, development and deployment of AI and data science solutions.	☐

Associated KSB	Distinction Criteria	Criteria Not Met
K12, K9	Assesses the business impact of adhering to relevant ethical, legal, professional and regulatory requirements.	☐
K4, K24, S21, K20, K2	Compares different data storage, processing, and machine learning methods and concludes which is the most effective and why.	☐
K4, K24, S21, K20, K2	Explains the differences between uncertainty in the outputs of data collection and analysis.	☐
K27, S13, K15	Justifies the choice of methodology, explaining the risks and benefits and offers an alternative.	☐