
Overview

This sub-discipline Data Science (803) is concerned with the competencies required to design and implement data studies to drive organisational decisions and insights. This involves undertaking tasks to develop, implement and evaluate algorithms, predictive data modelling and data visualisation to identify underlying trends and patterns in data using statistical and computational techniques and tools.

Working in the lead professional role (8036) is primarily focussed on leading the delivery of the data science capability, strategy and framework.

Performance criteria

You must be able to:

1. direct a team of data scientists to deliver predictive analyses solutions for developing appropriate new business insights
2. provide data insights that help drive strategic and tactical business improvement in line with organisational requirements
3. champion a data-driven, decision-making culture to advance the role of data science
4. be accountable for overall data science program objectives (effort, schedule, budget and deliverables) to meet organisational requirements
5. provide technical and strategic leadership for the data science function in line with organisational standards
6. develop data studies in line with best practice and communicate those to data science teams
7. define and manage policies and programs for data science in line with requirements of legal, information security, and corporate risk and compliance
8. horizon scan to identify, evaluate and implement appropriate new technologies in line with organisational requirements
9. define the approach to measuring the value from the data science business case in line with business requirements
10. communicate strategic data science results in an effective way to business management at a strategic level (e.g. board and other senior executives)

Knowledge and understanding

You need to know and understand:

1. the organisational KPI's
2. the objectives of performing a data science project
3. the balance among data, technology, analytics and business acumen to perform effectively
4. how to identify data science best practice
5. the range of integrated programming environments, analytics software packages and programming environments commonly used
6. how to perform horizon scanning
7. machine learning algorithms, statistics, visualisation, data engineering and natural language processing
8. how to communicate effectively with senior stakeholders and to gain support for data science strategy
9. how to communicate data science results

ESKITP803601



Lead the Delivery of the Data Science Capability, Strategy and Framework

Developed by e-skills

Version Number 1

Date Approved October 2014

Indicative Review Date December 2016

Validity Current

Status Original

Originating Organisation e-skills

Original URN ESKITP803601

Relevant Occupations Information and Communication Technology; Information and Communication Technology Professionals; Database Administration; ICT for practitioners

Suite IT and Telecoms

Keywords Data Analytics; Big Data; Data Management; Data Science
