

**SKILLS FRAMEWORK FOR FINANCIAL SERVICES
SKILLS MAP - DATA SCIENTIST**

Sector	Financial Services			
Track	Digital and Data Analytics			
Occupation	Data Analyst			
Job Role	Data Scientist			
Job Role Description	<p>The Data Scientist analyses data through the application of scientific methods and data-discovery tools, and is responsible for managing and mentoring a team responsible for conducting data analysis for the organisation. He/She discovers business insights and identifies opportunities through the use of statistical and visualisation techniques. He oversees the integration and preparation of large and varied datasets and business problem models, while ensuring the architecture for processing and computing data is suitable.</p> <p>The Data Scientist possesses strong experience and skills in data analytics, machine learning, data mining and statistics. He demonstrates a keen sense of business acumen and understanding of business needs, and is able to draw a link between business requirements and data analytics capabilities. He is able to communicate and engage with stakeholders across different disciplines to clearly identify business issues.</p>			
Critical Work Functions and Key Tasks / Performance Expectations	Critical Work Functions	Provide data analytics services to internal stakeholders	Key Tasks	
			Maintain project plans and status reports for all incoming and active projects	
			Partner with stakeholders to translate business problems into data projects	
			Conceptualise scope, direction and approach of data analytics projects	
			Identify trends, patterns and regularities in data through use of data models and latest tools	
	Build data analysis and processing systems	Provide subject matter expertise to stakeholders throughout the implementation cycle of the data analytics solutions		
		Direct and oversee data collection and data mining efforts		
		Organise and manipulate data from various data sources		
		Coordinate data quality reviews and report on their outcomes		
		Apply data mining techniques to investigate leads, identify patterns and regularities in data		
		Ensure reliability of data source and maintenance of data integrity		
		Advise on the design of reporting and analytical solutions		
	Develop data solution optimisation approaches	Develop presentations to facilitate story-telling of research and/or analytics findings		
		Develop employee capabilities in machine learning, deep learning, statistical modelling and other computational techniques		
		Determine ease of use and convenience of available analytical tools and make recommendations accordingly		
Test the functionality, suitability, ease of use and convenience of developed analytical tools				
	Prepare standard procedure documentation to outline data sources, models and algorithms used and developed for past projects			
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)	
	Data Analytics and Computational Modelling	Level 4	Problem Solving	Intermediate
	Data Collection and Analysis	Level 4	Sense Making	Intermediate
	Data Governance	Level 4	Computational Thinking	Intermediate
	Data Mining and Modelling	Level 4	Leadership	Intermediate
	Data Storytelling and Visualisation	Level 4	Developing People	Intermediate
	Emerging Technology Synthesis	Level 4		
	Ethical Culture	Level 4		
	People Performance Management	Level 4		
	Project Management	Level 4		

	Programming and Coding	Level 4		
	Software Configuration	Level 4		
	Stakeholder Management	Level 4		
Programme Listing	For a list of Training Programmes available for the Financial Services sector, please visit: www.skillsfuture.sg/skills-framework/financial-services			

The information contained in this document serves as a guide.