

# ACS Migration Skills Assessment Criteria

## 224999 - Information and Organisation Professionals nec (Data Scientist)



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A **Data Scientist** develops machine learning models, and has skills in data mining, data analytics, data visualisation reporting plus skills relating to database technologies, programming, and advanced analytics such as predictive and prescriptive analytics as well as other artificial intelligence techniques.

### Key tasks include:

- Applies analytics techniques that incorporate statistics and statistical models, programming and database skills
- Recognises and overcomes data anomalies
- Develops insights for decision making
- Reviews and monitors models in use and adjusts as required
- Provides strategic input and innovation to organisational data science initiatives

Note: The occupation description above is derived from the ACS submission to the recent ABS ANZSCO Consultation 2023.

ACS Summary of Criteria for Data Scientist (ANZSCO 224999)			
Application Type	Required Level of Study (in AQF)	Required Qualification Closely Related to ANZSCO	Required Work Experience Closely Related to ANZSCO
Temporary Grad (485)	Australian Bachelor Degree or higher	Major in Data Science	No experience required
Post Australian Study (PAS)	Australian Bachelor Degree or higher	Major in Data Science	1-year (365 days) relevant work experience, completed after the completion date of the relevant Australian qualification OR Completion of ACS Professional Year in IT
Skills	Bachelor Degree or higher	Major in Data Science	2 years relevant work experience completed in the last 10 years OR 4 years relevant work experience completed anytime in past work history
Skills	Bachelor Degree or higher	Major in ICT/Computer Science, Math, Statistics, Economics & Engineering	4 years relevant work experience completed anytime in past work history
Skills	Bachelor Degree or higher	Minor in Data Science	5 years relevant work experience completed in the last 10 years OR 6 years relevant work experience completed anytime in past work history
Skills	Bachelor Degree or higher	Minor in ICT/Computer Science, Math, Statistics, Economics & Engineering	6 years relevant work experience completed anytime in past work history
Skills	Diploma/Advanced Diploma/Associate Degree	Major in Data Science	5 years relevant work experience completed in the last 10 years OR 6 years relevant work experience completed anytime in past work history
Skills	Diploma/Advanced Diploma/ Associate Degree	Major in ICT/Computer Science, Math, Statistics, Economics & Engineering	6 years relevant work experience completed anytime in past work history
RPL	No Diploma or higher-level qualification in the field of Data Science or ICT/Computer Science, Math, Statistics, Economics & Engineering		6 years relevant work experience completed anytime in past work history plus a successful RPL application
RPL	No qualification at Diploma or higher level		8 years relevant ICT work experience completed anytime in past work history plus a successful RPL application