

DATA SCIENTIST SKILLS ASSESSMENT

Professional Skills Assessment Report

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OVERALL SCORE

Overall Assessment

Strong technical data science practitioner with extensive industry experience but limited academic research and publication background.

Strengths

- ✓ Exceptional statistical and mathematical modeling expertise with PhD-level education
- ✓ Proven leadership in data engineering, visualization, and product development across multiple industries
- ✓ Strong project management and stakeholder engagement capabilities with business-driven approach

Development Areas

- Academic research skills including scientific publication writing and dissemination to research community
- Research ethics, open science practices, and FAIR data management principles
- Formal database design, query languages, and data governance frameworks aligned with research standards

Identified Skills

essential

Skill Name	Level	Confidence	Proficiency	Skill URI	Evidence
data science	9/10	95%	<div><div></div></div>	View	PhD in Applied Mathematics with Statistics and Extreme Value Theory, 10+ years as Data Scientist Senior and Data & AI Consultant
statistical modeling techniques	9/10	95%	<div><div></div></div>	View	PhD in Applied Mathematics specializing in Statistics and Extreme Value Theory, led team of 4 statisticians
statistics	9/10	95%	<div><div></div></div>	View	Master in Statistics and Applications, PhD with Statistics focus, Statistical Analysis expertise listed
mathematical modelling	8/10	90%	<div><div></div></div>	View	PhD in Applied Mathematics, developed vehicle recommendation algorithm and residual value models
data visualisation software	8/10	90%	<div><div></div></div>	View	Trained and Led Data Team on R/Shiny technology to deploy dashboards, Data Visualization Expertise listed
manage research data	8/10	85%	<div><div></div></div>	View	Led implementation of data flows for predictive analytics, organized data in data warehouse, managed data products
data engineering	8/10	90%	<div><div></div></div>	View	Data engineering and visualization for reinsurance company, led team of statisticians and data engineer
use data processing techniques	8/10	88%	<div><div></div></div>	View	Led implementation of data flows and predictive analytics, managed data lake run for insurance company
perform data cleansing	7/10	82%	<div><div></div></div>	View	Provided tool to monitor data quality for sensors data, organized data in data warehouse
deliver visual presentation of data	8/10	88%	<div><div></div></div>	View	Delivered Financial dashboard approved by top-level executives, trained team on R/Shiny for dashboards
perform project management	8/10	90%	<div><div></div></div>	View	Leadership in Data Analytics and project management, delivered project on time, managed roadmap for reinsurance company
build recommender systems	7/10	85%	<div><div></div></div>	View	Developed and deployed vehicle recommendation algorithm on occasion.largus.fr contributing to significant sales increase

optional

Skill Name	Level	Confidence	Proficiency	Skill URI	Evidence
business intelligence	8/10	85%	<div><div></div></div>	View	Delivered Financial dashboard for Energy Sector, audited data hub for SNCF Marketing department
image recognition	7/10	90%	<div><div></div></div>	View	Architected and managed deep learning product for image classification, leading team of three developers
manage ICT data architecture	7/10	82%	<div><div></div></div>	View	Team Lead for data lake run (Cloudera), explored Datalake opportunities and audited subsidiary data systems

Essential ESCO Skills (12)

✓ data science	✓ statistical modeling techniques	✓ statistics	✓ mathematical modelling	✓ data visualisation software
✓ manage research data	✓ data engineering	✓ use data processing techniques	✓ perform data cleansing	✓ deliver visual presentation of data
✓ perform project management	✓ build recommender systems			

Optional Skills (3)

● business intelligence	● image recognition	● manage ICT data architecture
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Missing Essential Skills (52)

○ draft scientific or academic papers	○ normalise data	○ manage ICT data classification	○ computer simulation	○ interpret current data
○ interact professionally in research and professional environments	○ data mining	○ disseminate results to the scientific community	○ operate open source software	○ establish data processes
○ speak different languages	○ execute analytical mathematical calculations	○ visual presentation techniques	○ evaluate research activities	○ demonstrate disciplinary expertise
○ use databases	○ handle data samples	○ increase the impact of science on policy and society	○ manage findable accessible interoperable and reusable data	○ perform scientific research
○ manage intellectual property rights	○ quantitative analysis	○ information extraction	○ design database scheme	○ implement data quality processes
○ scientific literature	○ collect ICT data	○ apply research ethics and scientific integrity principles	○ promote open innovation in research	○ information categorisation
○ publish academic research	○ promote the transfer of knowledge	○ resource description framework query language	○ think abstractly	○ query languages
○ mentor individuals	○ manage data collection systems	○ manage personal professional development	○ online analytical processing	○ write scientific publications
○ report analysis results	○ develop professional network with researchers and scientists	○ integrate gender dimension in research	○ manage open publications	○ data ethics
○ empirical analysis	○ synthesise information	○ conduct research across disciplines	○ develop data processing applications	○ promote the participation of citizens in scientific and research activities
○ data models	○ communicate with a non-scientific audience			