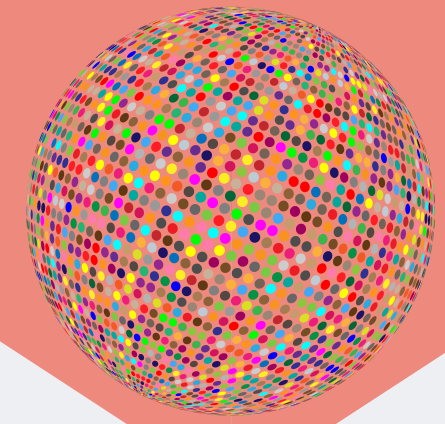


DATA SCIENTIST

Everything You need to know about a career



The role of a data scientist is to organise, clean, process and make sense of the collected data. To do so, he/she uses different tools and methods from statistics and programming.



Dr Alexander Vapirev,
High Performance Computing analyst and consultant at Facilities for Education, Research, Communication and Collaboration, ICTS services of KU Leuven, Belgium

SKILLS

Professional:

- Python Coding
- SQL Database/Coding
- Apache Spark
- Machine Learning
- Artificial Intelligence (AI)
- Data Visualization

Personal:

- Presentation skills
- Strong communications skills
- Data intuition

TASKS & RESPONSIBILITIES

Including but not limited to:

- [R1] Creating various machine learning-based tools or processes within the company
- [R2] Processing, cleansing, and verifying the integrity of data used for analysis
- [R3] Doing specific analysis and presenting results in a clear manner
- [R4] Performing statistical analysis

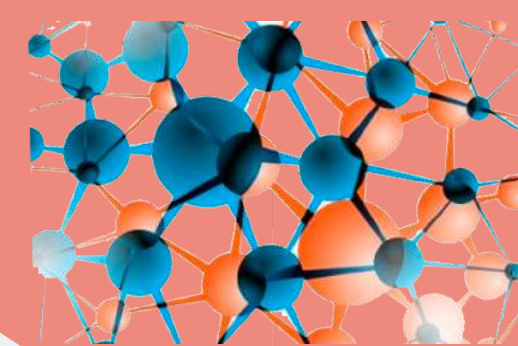


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HOW TO BECOME A DATA SCIENTIST:

Many different paths can lead you to a data scientist career. Bachelor's degrees in data science can lead to jobs like data visualization specialist, management analyst, and market research analyst. From there, many students go on to achieve Master's degrees in fields like machine learning algorithm developer, statistician or data engineer. Doctorate degrees, which usually are not necessary to start a career, can lead to fields such as business solutions scientist, data scientist, and enterprise science analytics manager.

“If you could start all over again, how you would change your career path?”

I would have made the same choices. It is the skills that define a person and its career path not the diplomas. If you understand how things work or you at least willing to understand how things work and ask questions, then this is the path for you.

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HOW TO GET EXPERIENCE

- Create or contribute in a data science project either during your studies or in your own time

CAREER PROSPECT:

Companies hiring data scientists are search engines (i.e. Google, Yahoo, Bing), social media companies (i.e. Facebook, Twitter, LinkedIn), engineering related companies (i.e. Intel, IBM, Boeing, HP), financial related companies (i.e. Amazon, eBay, Paypal, Visa), banks and finance-related companies (i.e. JP Morgan, HSBC) and many more.

WHICH SUBJECTS' KNOWLEDGE IS ESSENTIAL FOR A CAREER?

Algebra, calculus, programming, especially algorithms, statistics, data visualization