Difference Between Data Scientist and Data Analyst

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Sudhaa Gopinath

Jobs related to Data Science have topped the charts in job portals. There are job openings for various job titles like Data Scientists, Data Analysts, and Data Engineers. Though all these job titles deal with data and sound similar, they do have a number of detailed differences. Ever wondered how different they are from each other? I did! And here are the differences I found between a Data Scientist and a Data Analyst.

Data Scientist – Rock Star of IT

A Data Scientist is a professional who understands data from a business point of view. He is in charge of making predictions to help businesses take accurate decisions. Data scientists come with a solid foundation of computer applications, modeling, statistics and math. What sets them apart is their brilliance in business coupled with great communication skills, to deal with both business and IT leaders. They are efficient in picking the right problems, which will add value to the organization after resolving it.

Harvard Business Review has named 'Data scientist' as the "sexiest job of the 21st century. Up-skill with the ***Data Scientist Masters Program*** to take advantage of the career opportunities that come your way.

Break into Data Science

A Data Scientist can also be divided into 4 different roles based on their skill sets.

- Data Researcher
- Data Developers
- Data Creatives
- Data Businesspeople

Data Analysts – No Cool Tag Yet!

Data Analysts also plays a major role in Data Science. They perform a variety of tasks related to collecting, organizing data and obtaining statistical information out of them. They are also responsible to present the data in the form of charts, graphs and tables and use the same to build relational databases for organizations.

A Data Analyst can also be divided into 4 different roles based on their skill sets.

- Data Architects
- Database Administrators
- Analytics Engineer
- Operations

Qualification Required for Data Scientists and Data Analysts

Data Scientist	Data Analysts

statistics, correlation, data mining and predictive analysis better predictions for business decisions.
- Knowing 'R' is like a feather on a Data Scientist's cap.
- Deep statistical insights and machine learning – Mahout, Bayesian,Clustering etc

- components of data architecture
- Familiar with various ETL tools - for transforming different sources of data into analytics data stores. Should also be able to make some critical business features real time..
- Proficiency in decision making

Jobs Trends of Data Scientist and Data Analytics – As per Google Trends

Here is the trend for Data Analysts jobs as per google :
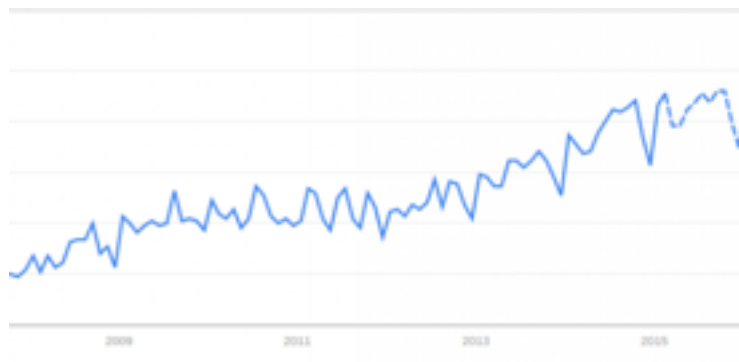

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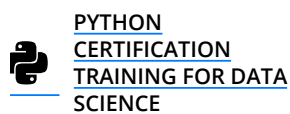f   Signup with Facebook

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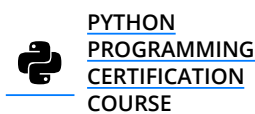*Data Science using Tableau From Sc…*

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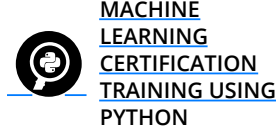
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However, no matter how many differences we highlight between both the job titles, one cannot be successful without the other.

There has never been a better time to master Data Science! Get started now with the specially curated Data Science course by Edureka.

Learn Data Science from Experts

Got a question for us? Please mention them in the comments section and we will get back to you.

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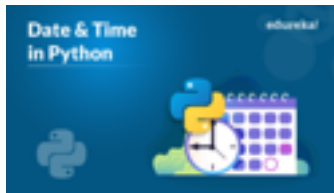
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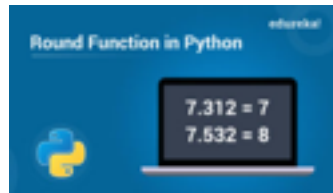
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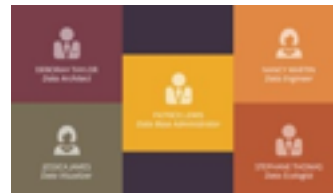## Recommended blogs for you

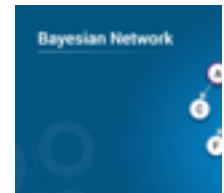**How to fetch and modify Date and Time in Python?**

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365DataScience says:

Mar 29, 2019 at 5:37 am GMT

Thanks for the article!

We do recognize the need for a clear-cut explanation of data science. This is why we, the 365 Data Science Team, designed the What-Where-Who infographic. We define the key processes in data science and disseminate the field. Here is our interpretation of data science. https://uploads.disquscdn.com/images/4566541776f34f20c273cdde3c65a53e3d18b29d801f313cedfd35b55eeaf7d8.jpg We hope the data science community finds it helpful!

Source: https://bit.ly/2WdYwDY

365 Data Science
365 Data Science is an online educational career website
https://365datascience.com

Reply

Mohit says:

Nov 5, 2018 at 12:43 pm GMT

Oracle Hyperion Financial Data Quality Management EE Administration http://www.bisptrainings.com

I have the same queries as Sam. But haven't got any reply from Edureka..
1) Is Data Scientist profile more to do with Development and coding and Data Analyst more to do with Reporting and Presentation of data with business insights and advises.
2)If so, the knowledge of the BI tools will vary as a Data Scientist would be more interested in the technical part of say Hadoop and a Data Analyst will be more interested in the functional part or how to use Hadoop for Analysing data.
3)Is Data Analyst the same as Business Analyst.

Reply

EdurekaSupport says:
Dec 14, 2015 at 11:30 am GMT

Hi Shruthi,
We understand that you have many specific queries and would recommend that you get in touch with us for further clarification by contacting our sales team on +91-8880862004 (India) or 1800 275 9730 (US toll free). You can mail us on sales@edureka.co.

Reply

Nishant Doshi says:
Sep 24, 2015 at 1:20 pm GMT

if a person has no prior knowledge of IT but is an engineer of different field then also is it advisable to choose the career as a data scientist?

Reply

EdurekaSupport says:
Sep 28, 2015 at 6:53 am GMT

Hi Nishant,
Thank you for reaching out to us.
The current job scenario has witnessed several professionals switching to Big Data and Analytics technologies in order to advance in their careers. A prior IT experience is beneficial to pick up data science concepts quickly, and there is no age bar for learning it. You can definitely opt for Edureka's Data Science course, for which the basic prerequisite is familiarity with Core Java, Hadoop, R and Mahout concepts. Edureka also provides a complementary self paced courses covering essentials of Hadoop, R and Mahout to help you brush up the fundamentals required for the course. You can go through this link for more details: https://www.edureka.co/data-science-r-programming-certification-course
You can get in touch with us for further clarification by contacting our sales team on +91-8880862004 (India) or 1800 275 9730 (US toll free). You can also mail us on sales@edureka.co.

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Ramesh says:
Aug 10, 2015 at 5:45 am GMT

1. Is Data Science only for those with BI / Data skills or people with testing knowledge can get into Data Science stream?
2.How can we position ourselves to fight for Data Science jobs given we have no experience (in Data Science) but have IT experience?
3. Will age be a limiting factor to get into data science?

Reply

EdurekaSupport says:
Aug 10, 2015 at 10:00 am GMT

Hi Ramesh,
Thank you for reaching out to us.
The current job scenario has witnessed several experienced professionals switching to Big Data and Analytics technologies in order to advance in their careers. A prior IT experience is beneficial to pick up data science concepts quickly, and there is no age bar for learning it. Since you have a solid background in BI/Data skills, you can definitely opt for Edureka's Data Science course. The basic prerequisite to learn

EdurekaSupport says:
Jun 3, 2015 at 4:52 am GMT

Hi Adie, the graphs are from Google trends. You can check it out here: https://www.google.co.in/trends/explore#q=Data%20Scientist

Adie Josh says:
Jul 14, 2015 at 8:23 pm GMT

You guys at Edureka have a good stand in Indian market as well. Showing salary trends for India would make the post more cool and helpful for new data science aspirants.

EdurekaSupport says:
Jul 16, 2015 at 6:37 am GMT

Thanks for your suggestion, Adie!

Pawan Pandurangi says:
Jul 14, 2015 at 4:39 pm GMT

the y axis is for jobs.I'm pretty sure it was meant to be obvious.

Adie Josh says:
Jul 14, 2015 at 8:22 pm GMT

This shows "interest" on google trends — which is a kind of score google gives to keywords based on their appearance on the web and search activities

Sam says:
Feb 9, 2015 at 2:05 pm GMT

The above article is excellent but I have a few queries:
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2)If so, the knowledge of the BI tools will vary as a Data Scientist would be more interested in the technical part of say Hadoop and a Data Analyst will be more interested in the functional part or how to use Hadoop for Analysing data.
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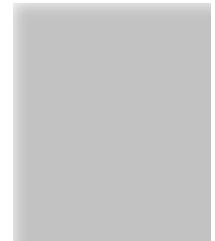

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