DATA SCIENCE

Newsletter Volume -10

Data Science Job Interviews

After all the hard work you put in to get yourself [prepared for a Data Science career](#), you are going to look at Data Science job interview. Even if you are confident on your skills, and may have a good reference, it's still a stressful experience.

Data Science Interview questions are more hands on kind of questions on high level, so you need to give yourself a lot of time to practice and not cram materials, which are floating on the internet. Of course, you need to prepare for certain type of screening questions such as

- What is random forest?

- How to interpret a p-value?

- Where do you use decision tree algorithm?

- Which language do you prefer R or Python and why is that so?

- You may also expect open ended questions in your screening interview such as 1. How Data Science helps Business in general? 2. Why do you choose to become a Data Scientist?

Though these questions are open ended, which can have a lengthy answers, I suggest to keep it straight and to the point with around a minute length response. To keep it this way, you need to prepare before hand for these kind of questions.

What do interviewers look for?

- From my experience of working with big companies in advising them in Data Science Strategy, I can tell you that many companies, even the big ones, have limited idea about what a data scientist should know. Some require Data Scientist with strong business & analysis skills and expect them to drive Data Science projects with team of Machine learning experts, Analyst and Developers, while others expect Data Scientist to have a strong knowledge in creating models and building things by themselves. Especially, if the Data Science team is just a few people and a Data Scientist should be capable of building things.

What kind of questions to expect?

- Well, this depends on the kind of job role you have applied. That being said, the questions in Data Science interviews can be broadly categorized into 5 areas:

1.General 2. Statistics 3. Programing including R, Python etc., 4. Modelling & Problem Solving 5. Behavioral and Cultural fit

- And of course, some terrible questions, which generally have no answers, to test your temperament.

General Questions

- These are usually to assess your high level knowledge in Data Science

- How Data Science is different from traditional business intelligence?

- Do you think Data Science can be useful to our organisation? How?

- What are the different type of Analytics? (for ex., Descriptive, Predictive, Discovery and Prescriptive..)

- What would be the timeline you suggest to transform our organisation to Data Science enabled organisation? (Typically this question for senior professionals as Data Scientist)

Statistics Questions:

- These questions are intended to test your knowledge in applied statistics and math.

- What is regression, where is it applied?

- Explain Binomial Probability Formula?

- What does R-Square value mean?

- Explain Central limit theorem with an example.

- What is Gaussian distribution? Where it is applied?

Programming Questions:

- These questions would be focused on general programming skills, SQL and data retrieving skills, big data, popular applications of data analysis and languages such as in R and Python.

- If you were given a list of numbers, how do you sort them?

- What is sparsity? How do you deal with it?

- Model Performance vs. Accuracy, which is more important when designing a machine learning model?

- How would you represent 5 dimensional data effectively?

- What is the difference between an outer join, inner join, left/right join, and union?

- What packages are you most familiar within R language and Why?

- What are the different types of sorting algorithms available in R , which one do you prefer?

Modelling & Problem Solving:

• How do you identify spam emails from ham emails? Which algorithm do you suggest?

• What do you prefer, 5 days effort for developing a 90% accurate solution, or 10 days for 100% accuracy? Explain why?

• Where a general linear model fails? Give few examples.

• How would you validate a model you have created to generate a predictive model of a quantitative outcome variable using multiple regression?

• How would you detect bogus reviews, bogus Facebook accounts used for malicious purposes?

• Can you suggest a model to identify plagiarism?

Behavioral and Cultural fit:

• What do you think makes a good data scientist?

• How did you become interested in data science?

• Tell me about a time you failed, and what you have learned from it.

• What unique skills do you think you'd bring to the team?

Finally, it all depends on how confident you are and that doesn't mean that you know the answer to all the possible questions. You don't have to master everything you need to perform that role in interview itself, rather you will be learning and improving your skills based on the role you perform. So trust yourself, prove that you have a good foundation and can learn quickly to contribute to the role you are being interviewed for. Remember that a failed interview is a great learning opportunity so that you can crack the next one. Wish you the very best.

Upcoming Events

This is a group for anyone interested in Data Science, Machine Learning or Deep Learning. We meet every few weeks to discuss recent research papers, novel tools & techniques, Kaggle competitions, or anything related to Data Science. We have members of all skill levels, ranging from students learning to get into Data Science, to expert practitioners. This group is a small effort to grow Data Science community in India.

EVENT NAME: Deep Learning with Pytorch : Zero to GANs- Workshop

(Beginners)

VENUE: HSR Layout Bengaluru

DATE|: Saturday, October 19, 2019.

TIME: 03:00 – 06:00 p.m.

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Job Listings

Data Scientist

Ericsson

Years: 0 - 7   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 15 October

APPLY

Data Scientist

Heptagon Technologies Private Limited

Years: 0 - 15   Location: Bangalore

Key Skills: Proficiency in at least one Data Science Language (Python,
              Scala, R)

Salary: Not Disclosed   Posted on: 15 October

APPLY

Data Scientist

LinkedIn

Years: 0 - 715   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 12 October

APPLY

Data Scientist

Radius AI ,Inc

Years: 0 - 15   Location: Bangalore

Key Skills: Proficiency in at least one Data Science Language (Python, Scala, R)

Salary: Not Disclosed   Posted on: 15October

APPLY

Senior Data Scientist

Idecxcel

Years: 3 -15   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 17 October

APPLY

Senior Data Scientist

(24)7.ai

Years: 1-4   Location: Bangalore

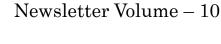Key Skills: Proficiency in at least one Data Science Language (Python, Scala, R)

Salary: Not Disclosed   Posted on: 15 October

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Lead Data Scientist

Sigtuple

Years: 2- 15   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 12 October

APPLY

Senior Data Scientist

Manhattan Associates

Years: 2- 15   Location: Bangalore

Key Skills: Proficiency in at least one Data Science Language (Python, Scala, R)

Salary: Not Disclosed   Posted on: 16 October

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Health Care Data Scientist

Integra Connect

Years: 5 - 10   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 17October

APPLY

Senior Data Scientist

Blue Jeans Network

Years: 3- 15   Location: Bangalore

Key Skills: Proficiency in at least one Data Science Language (Python, Scala, R)

Salary: Not Disclosed   Posted on: 15 October

APPLY

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Global Institute for Data Science

Data Scientist

iQuanti,Inc.

Years: 3 -6   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 15 October

APPLY

Data Scientist

Accenture

Years: 6 - 10   Location: Bangalore

Key Skills: Proficiency in at least one Data Science Language (Python, Scala, R)

Salary: Not Disclosed   Posted on: 15 October

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Data Scientist

Near

Years: 3 - 5   Location: Bangalore

Key Skills: Experience in Python, R or other Programming Languages.

Salary: Not Disclosed   Posted On: 15 October

APPLY

Data Scientist

Honeywell

Years: 0-15   Location: Bangalore

Key Skills: Proficiency in at least one Data Science Language (Python, Scala, R)

Salary: Not Disclosed   Posted on: 13 October

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