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Top 60 Power BI Interview Questions and Answers in 2025

By Shivam Arora

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811224

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Back in 2011, the rise of Business Intelligence tools posed a challenge to Microsoft to build its own business intelligence tool. Microsoft introduced the [Power BI](#) to deliver compelling analytical capabilities to existing Microsoft Excel and upgrade it to be intelligent enough to generate interactive reports.

According to [Gartner's Magic Quadrant](#), Microsoft Power BI is one of today's top business intelligence tools, chiefly because most IT firms rely on Power BI for their business analytics.

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms





Source: [Gartner](#)

Consequently, there is a growing demand for Power BI experts in today's IT industry. This article is designed to assist aspiring Power BI professionals by covering:

- Beginner-Level Power BI Interview Questions
- Intermediate-Level Power BI Interview Questions
- Advanced-Level Power BI Interview Questions

Let's get started!

What Are the Most Asked Power BI Interview Questions?

Here are the most frequently asked Power BI interview questions that come up in interviews for both freshers and experienced candidates.

1. [What is Power BI?](#)
2. Difference between Power BI and Tableau
3. Difference between Power Query and Power Pivot
4. What is Power BI Desktop
5. What is Power Pivot?
6. What is Power Query?



7. What is DAX?
8. What are Filters in Power BI?
9. What are Custom Visuals in Power BI?
10. What is GetData in Power BI?

We have a total of sixty questions lined up for you, so let's start by exploring some commonly asked beginner-level Power BI interview questions.

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What Are the Top Power BI Interview Questions for Freshers?

Preparing for a Power BI interview as a fresher involves understanding fundamental concepts and functionalities of the platform. Here are some commonly asked questions along with concise answers to help you get started:

1. What is Power BI?

Power BI is a business analytics tool developed by Microsoft that helps you turn multiple unrelated data sources into valuable and interactive insights. These data may be in the form of an Excel spreadsheet or cloud-based/on-premises hybrid [data warehouses](#). You can easily connect to all your data sources and share the insights with anyone.

2. Why should we use Power BI?

Because Power BI provides an easy way for anyone, including non-technical people, to connect, change, and visualize their raw business data from many different sources and turn it into valuable data that makes it easy to make smart business decisions.

3. Difference between Power BI and Tableau

Both [Tableau and Power BI](#) are the current IT industry's data analytics and visualization giants. Yet, there are a few significant differences between them. You will now explore the important differences between Tableau and Power BI.

| Tableau | Power BI |
|---------|----------|
|---------|----------|



| | |
|---|--|
| Tableau uses MDX for measures and dimensions | Power BI uses DAX for calculating measures |
| Tableau is capable of handling large volumes of data | Power BI is qualified only to handle a limited amount of data |
| Tableau is best suitable for experts | Power BI is suitable for both experts and beginners |
| Tableau User Interface is complicated | Power BI User Interface is comparatively simpler |
| Tableau is capable of supporting the cloud with ease. | Power BI finds it difficult, as its capacity to handle large volumes of data is limited. |

4. What is the difference between Power Query and Power Pivot?

The differences between Power Query and Power Pivot are explained as follows:

| Power Query | Power Pivot |
|--|---|
| Power Query is all about analyzing data. | Power Pivot is all about getting and Transforming data. |
| Power Query is an ETL service tool. | Power Pivot is an in-memory data modeling component |



5. What is Power BI Desktop?

Power BI Desktop is an open-source application designed and developed by Microsoft. It allows users to connect to, transform, and visualize your data with ease. Power BI Desktop lets users build visuals and collections of visuals that can be shared as reports with your colleagues or your clients in your organization.

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6. What is Power Pivot?

Power Pivot is an add-on provided by Microsoft for Excel since 2010. Power Pivot was designed to extend the analytical capabilities and services of Microsoft Excel.

7. What is Power Query?

Power Query is a business intelligence tool designed by Microsoft for Excel. Power Query allows you to import data from various data sources and will enable you to clean, transform and reshape your data as per the requirements. Power Query allows you to write your query once and then run it with a simple refresh.

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8. Describe the components of Microsoft's self-service BI solution

Self-service business intelligence (SSBI) is divided into the Excel BI Toolkit and Power BI.

9. What is self-service BI, anyway?

SSBI is an abbreviation for Self-Service Business Intelligence and is a breakthrough in business intelligence. SSBI has enabled many business professionals with no technical or **coding** background to use Power BI and generate reports and draw predictions successfully. Even non-technical users can create these dashboards to help their business make more informed decisions.

10. What is DAX?

DAX stands for Data Analysis Expressions. It's a collection of functions, operators, and constants used in formulas to calculate and return values. In other words, it helps you create new info from data you already have.



11. What are Filters in Power BI?

The term "Filter" is self-explanatory. Filters are mathematical and logical conditions applied to data to filter out essential information in rows and columns. The following are the variety of filters available in Power BI:

- Manual filters
- Auto filters
- Include/Exclude filters
- Drill-down filters
- Cross Drill filters
- Drillthrough filters
- Drillthrough filters
- URL filters–transient
- Pass-Through filters

12. What are Custom Visuals in Power BI?

Custom Visuals are like any other visualizations, generated using Power BI. The only difference is that it develops the custom visuals using a custom SDK. The languages like [JQuery](#) and [JavaScript](#) are used to create custom visuals in Power BI.

13. What is GetData in Power BI?

Get Data is a simple icon on Power BI used to import data from the source.

14. Mention some advantages of Power BI

Some of the advantages of using Power BI:

- It helps build an interactable [data visualization](#) in data centers
- It allows users to transform data into visuals and share them with anyone
- It establishes a connection for Excel queries and dashboards for fast analysis
- It provides quick and accurate solutions



- It enables users to perform queries on reports using simple English words

15. List out some drawbacks/limitations of using Power BI.

Here are some limitations to using Power BI:

- Power BI does not accept file sizes larger than 1 GB and doesn't mix imported data accessed from real-time connections.
- There are very few data sources that allow real-time connections to Power BI reports and dashboards.
- It only shares dashboards and reports with users logged in with the same email address.
- Dashboard doesn't accept or pass user, account, or other entity parameters.

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16. What are some differences in data modeling between Power BI Desktop and Power Pivot for Excel?

Power Pivot for Excel supports only single directional relationships (one to many), calculated columns, and one import mode. [Power BI](#) Desktop supports bi-directional cross-filtering connections, security, calculated tables, and multiple import options.

17. Name the different connectivity modes available in Power BI?

There are three main connectivity modes used in Power BI.

1. SQL Server Import

An [SQL](#) Server Import is the default and most common connectivity type used in Power BI. It allows you to use the full capabilities of the Power BI Desktop.

2. Direct Query

The Direct Query connection type is only available when you connect to specific data sources. In this connectivity type, Power BI will only store the metadata of the underlying data and not the actual data.

3. Live Connection

With this connectivity type, it does not store data in the Power BI model. All interaction with a report using a Live Connection will directly query the existing Analysis Services model. There are only 3 data sources that support the live connection method - SQL Server Analysis Services

Only 3 data sources that support the live connection method - SQL Server Analysis Services (Tabular models and Multidimensional Cubes), Azure Analysis Services (Tabular Models), and Power BI Datasets hosted in the Power BI Service.

18. What are the various types of refresh options provided in Power BI?

Four important types of refresh options provided in Microsoft Power BI are as follows:

- Package refresh - This synchronizes your Power BI Desktop or Excel file between the Power BI service and OneDrive, or SharePoint Online.
- Model or data refresh - This refreshes the dataset within the Power BI service with data from the original data source.
- Tile refresh - This updates the cache for tile visuals every 15 minutes on the dashboard once data changes.
- Visual container refresh - This refreshes the visible container and updates the cached report visuals within a report once the data changes.

Did You Know? 🔍

Power BI is the leading business intelligence tool with a market share of 36% as of 2025.
([Gartner](#))

19. Name the data sources can Power BI can connect to

Several data sources can be connected to Power BI, which is grouped into three main types:

- Files: It can import data from Excel (.xlsx, .xlsm), Power BI Desktop files (.pbix) and Comma-Separated Values (.csv).
- Content Packs: These are a collection of related documents or files stored as a group.
- Connectors help you connect your databases and datasets with apps, services, and data in the cloud.

20. What is a dashboard in Power BI?

A dashboard is a single-layer presentation sheet of multiple visualizations reports. The main features of the [Power BI dashboard](#) are:



- It allows you to drill through the page, bookmarks, and selection pane and also lets you create various tiles and integrate URLs
- A dashboard can also help you set report layout to mobile view.

21. Explain how relationships are defined in Power BI Desktop?

Relationships between tables are defined in two ways:

- Manually - Relationships between tables are manually defined using primary and foreign keys.
- Automatic - When enabled, this automated feature of Power BI detects relationships between tables and creates them automatically.

22. Can you have more than one functional relationship between two tables in a Power Pivot data model?

No. There can be multiple inactive relationships, but only one active relationship between two tables in a Power Pivot data model. Dotted lines represent inactive relationships, and continuous lines represent active relationships.

23. Can you have a table in the model which does not have any relationship with other tables?

Yes. There are two main reasons why you can have disconnected tables:

- The table is used to present the user with parameter values to be exposed and selected in slicers
- It uses the table as a placeholder for metrics in the user interface

24. What is the CALCULATE function in DAX?

The CALCULATE function evaluates the sum of the Sales table Sales Amount column in a modified filter context. It is also the only function that allows users to modify the filter context of measures or tables.

Moving ahead, you will step up to the following Power BI Interview Questions from the Intermediate Level.

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What Are the Most Asked Power BI Interview Questions For Intermediate Level?

Preparing for an intermediate-level Power BI interview involves understanding both fundamental and advanced features of the platform. Here are some commonly asked questions:

25. Where is data stored in Power BI?

Most of the time, power BI gets assisted by the cloud to store the data. Power BI can use a desktop service. [Microsoft Azure](#) is used as the primary cloud service to store the data.

1. Azure SQL Database
2. Azure Blob Storage

26. What is row-level security?

Row-level security limits the data a user can view and has access to, and it relies on filters. Users can define the rules and roles in Power BI Desktop and also publish them to Power BI Service to configure row-level security.

27. Why should you apply general formatting to Power BI data?

Users can use general formatting to make it easier for Power BI to categorize and identify data, making it considerably easier to work with.

28. What are the different views available in Power BI Desktop?

There are three different views in Power BI, each of which serves another purpose:

- Report View - In this view, users can add visualizations and additional report pages and publish the same on the portal.
- Data View - In this view, data shaping can be performed using Query Editor tools.
- Model View - In this view, users can manage relationships between complex datasets.

29. What are the various versions of Power BI?

Here are the main versions of Power BI:

- Power BI Desktop



- Power BI service
- Mobile Power BI apps for iOS and Android devices

30. Explain the building blocks of Microsoft Power BI

The important building blocks of Power BI are as follows:

1. Visualizations

Visualization is the process of generating charts and graphs for the representation of insights on business data.

2. Datasets

A dataset is the collection of data used to create a visualization, such as a column of sales figures. Dataset can get combined and filtered from a variety of sources via built-in data plugins.

3. Reports


The final stage is the report stage. Here, there is a group of visualizations on one or more pages. For example, charts and maps are combined to make a final report.

4. Dashboards

A Power BI dashboard helps you to share a single visualization with colleagues and clients to view your final dashboard.

5. Tiles

A tile is an individual visualization on your final dashboard or one of your charts in your final report.

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31. What are the critical components of the Power BI toolkit?

The critical components of Power BI are mentioned below.

- Power Query
- Power Pivot



- Power View
- Power Map
- Power Q&A

32. What do you mean by the content pack?

A content pack is defined as a ready-made collection of visualizations and Power BI reports using your chosen service. You'd use a content pack when you want to get up and running quickly instead of creating a report from scratch.

33. Define bi-directional cross filtering

Bidirectional cross-filtering lets data modelers to decide how they want their Power BI Desktop filters to flow for data, using the relationships between tables. The filter context is transmitted to a second related table that exists on the other side of any given table relationship. This procedure helps data modelers solve the many-to-many issue without having to complicated DAX formulas. So, to sum it up, bidirectional cross-filtering makes the job for data modelers easier.

34. What are the three fundamental concepts of DAX?

The three fundamental concepts of **DAX** (Data Analysis Expressions) in Power BI are:

1. Syntax

This is how the formula is written—that is, the elements that comprise it. The Syntax includes functions such as SUM (used when you want to add figures). If the Syntax isn't correct, you'll get an error message.

2. Functions

These are formulas that use specific values (also known as arguments) in a particular order to perform a calculation, similar to the functions in Excel. The categories of functions are date/time, time intelligence, information, logical, mathematical, statistical, text, parent/child, and others.

3. Context

There are two types: row context and filter context. Row context comes into play whenever a formula has a function that applies filters to identify a single row in a table. When one or more filters are applied in a calculation that determines a result or value, the filter context comes into play.

play.

35. Why and how would you use a custom visual file?

You will use a custom visual file if the prepackaged files don't fit the needs of your business. Developers create custom visual files, and you can import them and use them in the same way as you would the prepackaged files.

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36. What are some familiar sources for data in the Get Data menu in Power BI?

A few familiar data sources are:

- Excel
- Power BI datasets
- Web, text
- SQL server
- Analysis services.

37. What are the categories of data types?

In Power BI, the categories of data types are as follows:

- All
- File
- Database
- Power BI
- Azure
- Online Services
- Other

38. Name some commonly used tasks in the Query Editor

In Power BI's Query Editor (also known as Power Query), some commonly used tasks include:



- Connect to data

- Shape and combine data
- Group rows
- Pivot columns
- Create custom columns
- Query formulas

39. What do you mean by grouping?

Power BI Desktop helps you to group the data in your visuals into chunks. You can, however, define your groups and bins. For grouping, use Ctrl + click to select multiple elements in the visual. Right-click one of those elements and, from the menu that appears, choose Group. In the Groups window, you can create new groups or modify existing ones.

Did You Know?

Over 97% of Fortune 500 companies use Power BI for data visualization and business analytics. ([Microsoft](#))

40. Explain responsive slicers in Power BI

On a Power BI final report page, a developer can resize a responsive slicer to various sizes and shapes, and the data collected in the container will be rearranged to find a match. If a visual report becomes too small to be useful, an icon representing the visual takes its place, saving space on the report page.

41. What is query folding in Power BI?

Query folding is used when steps defined in the Query Editor are translated into SQL and executed by the source database instead of your device. It helps with scalability and efficient processing.

42. What is "M language"

M is a [programming language](#) used in Power Query as a functional, case-sensitive language[↑] similar to other programming languages and easy to use.

What Are the Top Power BI Interview Questions for Experienced Professionals?

Here are the top Power BI interview questions for experienced professionals that test advanced knowledge, practical skills, and strategic decision-making abilities:

43. What are the major differences between visual-level, page-level, and report-level filters in Power BI?

Visual-level filters are used to filter data within a single visualization. Page-level filters are used to work on an entire page in a report, and different pages can have various filters.

Report-level filters are used to filter all the visualizations and pages in the report.

44. List the most common techniques for data shaping

In Power BI, data shaping involves transforming raw data into a suitable format for analysis and reporting. The most common techniques for data shaping include:

- Adding indexes
- Applying a sort order
- Removing columns and rows

45. How is the Schedule Refresh feature designed to work?

Users can set up for an automatic refresh over data based on daily or weekly requirements. Users can schedule only one refresh maximum daily unless they have Power BI Pro. The Schedule Refresh section uses the pull-down menu choices to select a frequency, time zone, and time of day.

46. What information is needed to create a map in Power Map?

Power Map can display geographical visualizations. Therefore, some location data is needed—for example, city, state, country, or latitude and longitude.

47. Which in-memory analytics engine does Power Pivot use?



Power Pivot uses the xVelocity engine. xVelocity can handle huge amounts of data, storing data in columnar databases. All data gets loaded into RAM memory when you use in-memory analytics, which boosts the processing speed.

48. Mention important components of SSAS

Following are some of the important Components of SSAS:

1. OLP Engine

An OLAP Engine is used to extensively run the ADHOC queries at a faster pace by the end-users

2. Data Drilling


It describes data Drilling in SSAS as the process of exploring details of the data with multiple levels of granularity.

3. Slicers

The data Slicing process in SSAS is defined as the process of storing the data in rows and columns.

4. Pivot Tables

Pivot Tables helps in switching between the different categories of data stored between rows and columns.

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49. What are the three fundamental concepts of DAX?

1. Syntax: This is how the formula is written—the elements that comprise it. The syntax includes functions such as SUM (used when you want to add figures). If the syntax isn't correct, you'll get an error message.
2. Functions: These are formulas that use specific values (also known as arguments) in a certain order to perform a calculation, similar to the functions in Excel. The categories of functions are date/time, time intelligence, information, logical, mathematical, statistical, text, parent/child, and others.
3. Context: There are two types: row context and filter context. Row context comes into play



whenever a formula has a function that applies filters to identify a single row in a table. When one or more filters are applied in a calculation that determines a result or value, the filter context comes into play.

50. Name the variety of Power BI Formats

Power BI is available mainly in three formats, as mentioned below.

1. Power BI Desktop: Open-Source version for Desktop users
2. Power BI Services: For Online Services
3. Power BI Mobile Application: Compatible with mobile devices

51. What are the different stages in the working of Power BI?

There are three different stages in working on Power BI, as explained below.

1. [Data Integration](#)
2. Data Processing
3. Data Presentation

1. Data Integration

The primary step in any business intelligence is to establish a successful connection with the data source and integrate it to extract data for processing.

2. Data Processing

The next step in business intelligence is [data processing](#). Most of the time, the raw data also includes unexpected erroneous data, or sometimes a few data cells might be empty. The BI tool needs to interpret the missing values and inaccurate data for processing in the data processing stage.

3. Data Presentation

The final stage in business intelligence is analyzing the data got from the source and presenting the insights using visually appealing graphs and interactive dashboards.

52. Which professionals use Power BI the most?



Beginners and experts prefer Power BI in business intelligence. Power BI is used mainly by the

following professionals.

- Business Analysts
- Business Owners
- Business Developers

1. Business Analysts

A [business analyst](#) is a professional who analyses the business data and represents the insights found using visually appealing graphs and dashboards

2. Business Owners

Business owners, decision-makers, or organizations use Power BI to view the insights and understand the prediction to make a business decision.

3. Business Developers

Business Developers are just [software developers](#) who get hired for business purposes to develop custom applications and dashboards to help the business process be smooth.

53. What is the advanced editor?

Advanced editor is used to view queries that Power BI is running against the data sources importing data. The query is rendered in M-code. Users wanting to view the query code select “Edit Queries” from the Home tab, then click on “Advanced Editor” to perform work on the query. Any changes get saved to Applied Steps in the Query Settings.

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54. What gateways does Power BI have and why should you use them?

Gateways function as bridges between the in-house data sources and [Azure Cloud Services](#).

- Personal Gateway: Used only by one person, data can be imported, and is only valid on Power BI Service.
- On-Premises Gateway: This is an advanced form of the Personal Gateway, supporting Direct Query and usable by multiple users to refresh data.

55. Mention some applications of Power BI



There are multiple applications of Power BI; some of them are as follows:

- Business Analysis
- Data Analysis
- Database Administration
- IT Professional
- [Data Science](#)

56. How can you depict a story in Power BI?

Every individual chart or visualization report generated is collected and represented on a single screen. Such an approach is called a Power BI Dashboard. A Dashboard in Power BI is used to depict a story.

57. What are KPIs in Power BI?

KPI is abbreviated as Key Performance Indicator. Any professional organization has teams and employees follow the KPI protocols. The organizations set up KPIs for all the employees. These KPIs act as their targets. These KPIs are compared to previous performance and analyze the progress.


58. What is a Slicer?

Slicers are an integral part of a business report generated using Power BI. The functionality of a slicer can be considered similar to that of a filter, but, unlike a filter, a Slicer can display a visual representation of all values and users will be provided with the option to select from the available values in the slicer's drop-down menu.

59. Explain Power BI Designer

It is a combined solution offered to upload the reports and dashboards to the PowerBI.com website for reference. It consists of Power Pivot, Power Query, and Power Table.

60. How do you reshape data in Power BI?

Power BI offers a wide variety of data source connectivity options. Data Editor is one of the tools used to manipulate rows and columns of data and helps you reshape it according to the requirements. 

Watch this video on the most asked top 15 Power BI interview questions and answers.

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Gayathri Ramesh

Associate Data Engineer, Publicis
Sapient

The course was well structured and curated. The live classes were extremely helpful. They made learning more productive and interactive. The program helped me change my domain from a data analyst to an Associate Data Engineer.



Manish Beniwal

Advisor Reporting - Global Mobility at
Rio Tinto, Rio Tinto

I am a Data Analyst with 7 years of experience, but I hadn't worked with Statistics much. So, I enrolled in this Data Analyst Certification course. It's a good course, even for beginners. Overall, the training is very good. Thank you, Simplilearn.

Not sure what you're looking for?

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Wrapping Up

Power BI Architecture and Features can be your next vital step in learning data analytics. Enroll in Simplilearn's [Power BI Certification Course](#) and become a certified expert.

Frequently Asked Questions (FAQs)

1. What non-technical skills do employers value in a Power BI candidate?

Employers value problem-solving, communication, business acumen, and data storytelling skills to help interpret and present insights effectively.

2. How can I effectively prepare for behavioral questions in a Power BI interview?

Practice answering questions using the STAR (Situation, Task, Action, Result) method and focus



on teamwork, problem-solving, and project experiences.

3. Which certifications can improve my chances of securing a Power BI job?

Certifications like Microsoft Power BI Data Analyst Associate (PL-300) and DA-100 can boost your credibility and job prospects in Power BI.

4. What strategies can help me succeed in the technical tests of a Power BI interview?

Review Power BI concepts, practice DAX queries, data modeling, and hands-on exercises with real datasets to build confidence.

5. What insightful questions should I ask the interviewer about a Power BI role?

Ask about team structure, project workflows, data challenges, growth opportunities, and how Power BI integrates with business decisions.

6. What are the best approaches to negotiating a higher salary for a Power BI position?

Research industry salary trends, highlight your skills and certifications, and confidently discuss your value to the company during negotiations.

Data Science & Business Analytics Courses Duration and Fees

Data Science & Business Analytics programs typically range from a few weeks to several months, with fees varying based on program and institution.

| | | |
|--|--|-----------|
| Professional Certificate Course in Data Science | | |
| Cohort Starts: 24 Mar, 2025 | | |
| 11 months | | ₹1,45,000 |
| Professional Certificate in Data Analytics and Generative AI | | |
| Cohort Starts: 27 Mar, 2025 | | |
| 22 weeks | | ₹1,74,989 |
| Professional Certificate in Data Science and Generative AI | | ↑ |
| Cohort Starts: 28 Mar, 2025 | | |

| | |
|----------|-----------|
| 6 months | ₹1,69,999 |
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Post Graduate Program in Data Analytics

Cohort Starts: 31 Mar, 2025

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| 8 months | ₹1,49,999 |
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Professional Certificate Program in Data Engineering

Cohort Starts: 31 Mar, 2025

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| 7 months | ₹1,69,999 |
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Professional Certificate Program in Data Analytics and Generative AI

Cohort Starts: 31 Mar, 2025

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| 11 months | ₹1,19,900 |
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Recommended Reads

Kubernetes Interview Guide

15 May, 2020


SOFTWARE DEVELOPMENT

VLSI Interview Questions

 38008

17 Mar, 2025

Top 24 Ansible Interview Questions and Answers

 146858

4 Dec, 2024



Acknowledgement

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