

# Data Science Survey

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## Page 1

**Page exit logic:** Skip / Disqualify Logic**IF:** #2 Question "For you, data analysis is...?" is one of the following answers ("I'm not involved in data analysis") **THEN:** Jump to **Page 6**

**Logic:** Show/hide trigger exists.

### 1) For you, data analysis is...?\*

- ☐ Your primary professional activity
  - ☐ A secondary/additional activity that you perform as part of your job
  - ☐ A hobby
  - ☐ Other – Write In: \_\_\_\_\_ \*
  - ☐ I'm not involved in data analysis
- 

## Page 2

**Page exit logic:** Skip / Disqualify Logic**IF:** #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is one of the following answers ("None") **THEN:** Jump to **Page 4**

**Logic:** Hidden unless: #2 Question "For you, data analysis is...?" is one of the following answers ("Your primary professional activity", "A secondary/additional activity that you perform as part of your job")

**2) Which of the following are you involved in?\***

☐ Data processing

☐ Basic statistics

☐ Model design (research)

☐ Model design (routine computations)

☐ Model deployment in production mode

☐ Data visualization

☐ Other – Write In:: \_\_\_\_\_ \*

**Logic: Hidden unless: #2 Question "For you, data analysis is...?" is one of the following answers ("A hobby","Other – Write In:")**

**3) Which of the following are area(s) of interest to you?\***

☐ Data processing

☐ Basic statistics

☐ Model design (research)

☐ Model design (routine computations)

☐ Model deployment in production mode

☐ Data visualization

☐ Other – Write In:: \_\_\_\_\_ \*

**4) Do you work with Big Data?\***

☐ Yes

☐ No

☐ I'm not sure

**5) Which tool(s) do you use for data analysis, if any?\***

☐ None

☐ RapidMiner

- ☐ KNIME
- ☐ Alteryx
- ☐ Angoss
- ☐ Microsoft Azure ML
- ☐ Dataiku
- ☐ Domino Data Lab
- ☐ Alpine Data Chorus
- ☐ Other – Write In:: \_\_\_\_\_\*

**6) What deep learning libraries do you use, if any?\***

- ☐ None
- ☐ TensorFlow
- ☐ Theano
- ☐ Torch
- ☐ Keras
- ☐ Other – Write In:: \_\_\_\_\_\*

**Logic: Show/hide trigger exists.**

**7) What programming language(s) do you regularly use for data analysis, if any?\***

- ☐ None
- ☐ R
- ☐ Python
- ☐ Java
- ☐ Scala
- ☐ Lua
- ☐ Julia
- ☐ Matlab/Octave
- ☐ Other – Write In:: \_\_\_\_\_\*

**8) Which of the following tool(s) do you use, if any? \***

☐ None

☐ Apache Spark

☐ Apache Samza

☐ Apache Flink

☐ Apache Hadoop/MapReduce

☐ Apache Hive

☐ Apache Pig

☐ Apache Tez

☐ Apache Beam

☐ Dask

☐ Other – Write In: \_\_\_\_\_ \*

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## Page 3

**Logic: Hidden unless: ((((((#8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("R")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Python")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Java")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Scala")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Lua")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Julia")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Matlab/Octave")) AND #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is not exactly equal to ("Other – Write In:"))**

**Piping: Piped Values From Question 8. (What programming language(s) do you regularly use for data analysis, if any?)**

**9) What is your main programming language for data analysis?\***

**10) Do you plan to adopt / migrate to other language(s) in the next 12 months?\***

☐ None

☐ R

☐ Python

☐ Java

☐ Scala

☐ Lua

☐ Julia

☐ Matlab/Octave

☐ Kotlin

☐ Go

☐ Rust

☐ C++

☐ Other - Write In: \_\_\_\_\_ \*

**11) In your opinion, what programming language will be most used for data analysis in the next 5 years?\***

☐ None

☐ R

☐ Python

☐ Java

☐ Scala

☐ Lua

☐ Julia

☐ Matlab/Octave

☐ Kotlin

☐ Go

☐ Rust

☐ C++

☐ Other – Write In:: \_\_\_\_\_ \*

**Logic: Hidden unless: #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is one of the following answers ("Python")**

**12) What data analysis and/or data visualization libraries do you use with Python, if any?\***

- ☐ None
- ☐ xgboost
- ☐ StatsModels
- ☐ NLTK
- ☐ scikit-learn
- ☐ Plotly
- ☐ Bokeh
- ☐ Matplotlib
- ☐ pandas
- ☐ NumPy
- ☐ SciPy
- ☐ gensim
- ☐ seaborn
- ☐ PySpark
- ☐ Other – Write In:: \_\_\_\_\_\*

**Logic: Hidden unless: #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is one of the following answers ("R")**

**13) What data analysis and/or data visualization libraries do you use with R, if any?\***

- ☐ None
- ☐ e1071
- ☐ rpart
- ☐ igraph
- ☐ nnet
- ☐ randomForest
- ☐ caret
- ☐ kernlab

- ☐ glmnet
- ☐ ROCR
- ☐ gbm
- ☐ party
- ☐ arules
- ☐ XGBoost
- ☐ ggplot2
- ☐ data.table
- ☐ plotly
- ☐ dplyr
- ☐ SparkR
- ☐ Other – Write In: \_\_\_\_\_ \*

**Logic: Hidden unless: #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is one of the following answers ("R","Python","Java","Scala","Lua","Julia","Matlab/Octave","Other – Write In:")**

**14) What software development tool(s) do you use for data analysis?\***

- ☐ Jupyter/IPython notebook
- ☐ JupyterLab
- ☐ Zeppelin
- ☐ Spyder IDE
- ☐ Rodeo
- ☐ RStudio
- ☐ Visual Studio
- ☐ Visual Studio Code
- ☐ PyCharm
- ☐ IntelliJ IDEA
- ☐ Eclipse
- ☐ Atom
- ☐ Sublime
- ☐ Vim

☐ Colaboratory

☐ Google Cloud Datalab

☐ Other - Write In: \_\_\_\_\_ \*

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## Page 4

**Logic: Hidden unless: #8 Question "What programming language(s) do you regularly use for data analysis, if any?" is exactly equal to ("None")**

**15) Are you planning on adopting any other language(s) in the next 12 months?\***

☐ None

☐ R

☐ Python

☐ Java

☐ Scala

☐ Lua

☐ Julia

☐ Matlab/Octave

☐ Kotlin

☐ Go

☐ Rust

☐ C++

☐ Other - Write In: \_\_\_\_\_ \*

**16) Which statistics package(s) do you use to analyze and visualize data, if any?\***

☐ None

☐ Statistica

☐ SPSS

- ☐ Spreadsheet editor (Microsoft Excel, OpenOffice Calc, Google Sheets, etc.)
- ☐ Stata
- ☐ SAS
- ☐ Tableau
- ☐ Other – Write In:: \_\_\_\_\_ \*

**17) What type(s) of data processing do you perform?\***

- ☐ None
- ☐ Streaming/Real-Time
- ☐ Batch
- ☐ Other – Write In:: \_\_\_\_\_ \*

**Logic: Show/hide trigger exists.**

**18) What is the industry you primarily analyze data for?**

- ☐ IT
- ☐ A non-IT industry

**Logic: Hidden unless: #29 Question "What is the industry you primarily analyze data for?" is one of the following answers ("IT")**

**19) Which field(s) of IT do you primarily analyze data for?\***

- ☐ Big Data / Data analysis
- ☐ Bioinformatics
- ☐ BPO services
- ☐ Cloud computing / platform
- ☐ Cybersecurity
- ☐ Data centers services
- ☐ E-learning
- ☐ FinTech

- ☐ Game development (including mobile games)
- ☐ Hardware
- ☐ Healthcare IT
- ☐ Internet / Search engines
- ☐ IoT / embedded
- ☐ IT services
- ☐ Mobile development
- ☐ Semiconductors
- ☐ Software development tools
- ☐ Telecom
- ☐ Other - Write In:: \_\_\_\_\_\*

**Logic: Hidden unless: #29 Question "What is the industry you primarily analyze data for?" is one of the following answers ("A non-IT industry")**

**20) Which industry or industries do you primarily analyze data for?\***

- ☐ Accounting / Finance / Insurance
- ☐ Administration / Management / Business Development
- ☐ Banking / Real Estate / Mortgage Financing
- ☐ Bioinformatics
- ☐ Business / Strategic Management
- ☐ Construction / Architecture
- ☐ Customer Support
- ☐ Design
- ☐ Education / Training
- ☐ Entertainment / Mass media and information / Publishing
- ☐ Human Resources
- ☐ Law
- ☐ Logistics/ Transportation
- ☐ Machinery
- ☐ Manufacturing
- ☐ Marketing

- ☐ Medicine / Health
  - ☐ Non-profit
  - ☐ Restaurants / Hospitality / Tourism
  - ☐ Sales / Distribution / Retail
  - ☐ Science
  - ☐ Security
  - ☐ Service / Maintenance
  - ☐ Other - Write In:: \_\_\_\_\_ \*
- 

## Page 5

**21) What operating system(s) do you use as your work environment for data analysis?\***

- ☐ Linux
- ☐ Mac OS
- ☐ Windows
- ☐ Other – Write In:: \_\_\_\_\_ \*

**Logic: Show/hide trigger exists.**

**22) What do you use to perform computations?\***

- ☐ Local machine
- ☐ Cluster with 4 to 10 nodes
- ☐ Cluster with 11 to 50 nodes
- ☐ Cluster with more than 51 nodes
- ☐ Cloud service
- ☐ Other – Write In:: \_\_\_\_\_ \*

**Logic: Hidden unless: #33 Question "What do you use to perform computations?" is one of the following answers ("Cloud service")**

**23) What cloud service(s) do you use for data analysis?\***

☐ Amazon Web Services (AWS)

☐ Microsoft Azure

☐ Google Cloud Platform

☐ Other – Write In:: \_\_\_\_\_ \*

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## Page 6

**Logic: Show/hide trigger exists.**

**24) What is your main employment status?\***

☐ Fully employed by a company / organization

☐ Partially employed by a company / organization

☐ Self-employed (*a person earning income directly from one's own business, trade, or profession*)

☐ Freelancer (*a person pursuing a profession without a long-term commitment to any one employer*)

☐ Student

☐ Retired

☐ Currently unemployed

☐ Other - Write In:: \_\_\_\_\_ \*

**Logic: Hidden unless: #35 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization", "Self-employed (*a person earning income directly from one's own business, trade, or profession*)", "Freelancer (*a person pursuing a profession without a long-term commitment to any one employer*)")**

**25) Which of the following best describes your job role(s) regardless of your position level?\***

- ☐ Developer / Programmer/ Software Engineer
- ☐ DevOps Engineer / Infrastructure Developer / etc.
- ☐ DBA
- ☐ Architect
- ☐ Tester / QA Engineer
- ☐ Technical support
- ☐ Data analyst / Data engineer
- ☐ Business analyst
- ☐ Team Lead
- ☐ Systems analyst
- ☐ Product Manager
- ☐ UX / UI Designer
- ☐ CIO / CEO / CTO
- ☐ Instructor / Teacher / Tutor / etc.
- ☐ Other - Write In:: \_\_\_\_\_\*

**26) What country do you live in?\***

- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ Andorra
- ☐ Angola
- ☐ Antigua and Barbuda
- ☐ Argentina
- ☐ Armenia
- ☐ Australia
- ☐ Austria
- ☐ Azerbaijan
- ☐ Bahamas, The

- ☐ Bahrain
- ☐ Bangladesh
- ☐ Barbados
- ☐ Belarus
- ☐ Belgium
- ☐ Belize
- ☐ Benin
- ☐ Bhutan
- ☐ Bolivia
- ☐ Bosnia and Herzegovina
- ☐ Botswana
- ☐ Brazil
- ☐ Brunei
- ☐ Bulgaria
- ☐ Burkina Faso
- ☐ Burundi
- ☐ Cambodia
- ☐ Cameroon
- ☐ Canada
- ☐ Cape Verde
- ☐ Central African Republic
- ☐ Chad
- ☐ Chile
- ☐ China
- ☐ Colombia
- ☐ Comoros
- ☐ Congo, Democratic Republic of the
- ☐ Congo, Republic of the
- ☐ Costa Rica
- ☐ Cote d'Ivoire
- ☐ Croatia
- ☐ Cuba
- ☐ Curacao

- ☐ Cyprus
- ☐ Czech Republic
- ☐ Denmark
- ☐ Djibouti
- ☐ Dominica
- ☐ Dominican Republic
- ☐ East Timor (see Timor-Leste)
- ☐ Ecuador
- ☐ Egypt
- ☐ El Salvador
- ☐ Equatorial Guinea
- ☐ Eritrea
- ☐ Estonia
- ☐ Ethiopia
- ☐ Fiji
- ☐ Finland
- ☐ France
- ☐ Gabon
- ☐ Gambia, The
- ☐ Georgia
- ☐ Germany
- ☐ Ghana
- ☐ Greece
- ☐ Grenada
- ☐ Guatemala
- ☐ Guinea
- ☐ Guinea-Bissau
- ☐ Guyana
- ☐ Haiti
- ☐ Holy See
- ☐ Honduras
- ☐ Hong Kong
- ☐ Hungary

- ☐ Iceland
- ☐ India
- ☐ Indonesia
- ☐ Iran
- ☐ Iraq
- ☐ Ireland
- ☐ Israel
- ☐ Italy
- ☐ Jamaica
- ☐ Japan
- ☐ Jordan
- ☐ Kazakhstan
- ☐ Kenya
- ☐ Kiribati
- ☐ Kosovo
- ☐ Kuwait
- ☐ Kyrgyzstan
- ☐ Laos
- ☐ Latvia
- ☐ Lebanon
- ☐ Lesotho
- ☐ Liberia
- ☐ Libya
- ☐ Liechtenstein
- ☐ Lithuania
- ☐ Luxembourg
- ☐ Macau
- ☐ Macedonia
- ☐ Madagascar
- ☐ Malawi
- ☐ Malaysia
- ☐ Maldives
- ☐ Mali

- ☐ Malta
- ☐ Marshall Islands
- ☐ Mauritania
- ☐ Mauritius
- ☐ Mexico
- ☐ Micronesia
- ☐ Moldova
- ☐ Monaco
- ☐ Mongolia
- ☐ Montenegro
- ☐ Morocco
- ☐ Mozambique
- ☐ Myanmar
- ☐ Namibia
- ☐ Nauru
- ☐ Nepal
- ☐ Netherlands
- ☐ Netherlands Antilles
- ☐ New Zealand
- ☐ Nicaragua
- ☐ Niger
- ☐ Nigeria
- ☐ North Korea
- ☐ Norway
- ☐ Oman
- ☐ Pakistan
- ☐ Palau
- ☐ Palestinian Territories
- ☐ Panama
- ☐ Papua New Guinea
- ☐ Paraguay
- ☐ Peru
- ☐ Philippines

- ☐ Poland
- ☐ Portugal
- ☐ Qatar
- ☐ Romania
- ☐ Russia
- ☐ Rwanda
- ☐ Saint Kitts and Nevis
- ☐ Saint Lucia
- ☐ Saint Vincent and the Grenadines
- ☐ Samoa
- ☐ San Marino
- ☐ Sao Tome and Principe
- ☐ Saudi Arabia
- ☐ Senegal
- ☐ Serbia
- ☐ Seychelles
- ☐ Sierra Leone
- ☐ Singapore
- ☐ Slovakia
- ☐ Slovenia
- ☐ Solomon Islands
- ☐ Somalia
- ☐ South Africa
- ☐ South Korea
- ☐ South Sudan
- ☐ Spain
- ☐ Sri Lanka
- ☐ Sudan
- ☐ Suriname
- ☐ Swaziland
- ☐ Sweden
- ☐ Switzerland
- ☐ Syria

- ☐ Taiwan
- ☐ Tajikistan
- ☐ Tanzania
- ☐ Thailand
- ☐ Timor-Leste
- ☐ Togo
- ☐ Tonga
- ☐ Trinidad and Tobago
- ☐ Tunisia
- ☐ Turkey
- ☐ Turkmenistan
- ☐ Tuvalu
- ☐ Uganda
- ☐ Ukraine
- ☐ United Arab Emirates
- ☐ United Kingdom
- ☐ United States
- ☐ Uruguay
- ☐ Uzbekistan
- ☐ Vanuatu
- ☐ Venezuela
- ☐ Vietnam
- ☐ Yemen
- ☐ Zambia
- ☐ Zimbabwe

**Logic: Show/hide trigger exists.**

**27) What is your main employment status?\***

- ☐ Fully employed by a company / organization
- ☐ Partially employed by a company / organization
- ☐ Freelancer

- ☐ Student
- ☐ Retired
- ☐ Looking for a job
- ☐ Other – Write In:: \_\_\_\_\_ \*

**28) What is the highest level of education you have completed?\***

- ☐ Bachelor's degree (BA, BSc, B.Eng., etc.)
- ☐ Master's degree (MA, MSc, M.Eng., MBA, etc.)
- ☐ Doctoral degree (Ph.D, Ed.D., etc.)
- ☐ Professional degree (JD, MD, etc.)
- ☐ Other – Write In:: \_\_\_\_\_ \*

**Logic: Hidden unless: (#2 Question "For you, data analysis is..." is one of the following answers ("Your primary professional activity", "A secondary/additional activity that you perform as part of your job") AND #38 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization"))**

**29) How long have you been working in data analysis?\***

- ☐ Less than 1 year
- ☐ 1 to 3 years
- ☐ 3 to 6 years
- ☐ 6 to 10 years
- ☐ More than 10 years

**Logic: Hidden unless: (#2 Question "For you, data analysis is..." is one of the following answers ("A hobby", "Other – Write In:") OR #38 Question "What is your main employment status?" is one of the following answers ("Freelancer", "Student", "Retired", "Looking for a job", "Other – Write In:"))**

**30) How long have you been involved in data analysis?\***

- ☐ Less than 1 year
- ☐ 1 to 3 years
- ☐ 3 to 6 years
- ☐ 6 to 10 years
- ☐ More than 10 years

**Logic: Hidden unless: #38 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization")**

**31) Which of the following best describes the level of your current position?\***

- ☐ Trainee
- ☐ Junior
- ☐ Middle
- ☐ Senior
- ☐ Other - Write In (Required): \_\_\_\_\_ \*

**Logic: Show/hide trigger exists. Hidden unless: #38 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization")**

**32) How many people work for your company / organization?\***

- ☐ Just me
  - ☐ 2-10
  - ☐ 11-50
  - ☐ 51-500
  - ☐ 501-1,000
  - ☐ 1,001-5,000
  - ☐ More than 5,000
  - ☐ Not sure
-

**Page entry logic:** This page will show when: (#2 Question "For you, data analysis is...?" is one of the following answers ("Your primary professional activity", "A secondary/additional activity that you perform as part of your job") AND #38 Question "What is your main employment status?" is one of the following answers ("Fully employed by a company / organization", "Partially employed by a company / organization"))

**Logic: Hidden unless: #43 Question "How many people work for your company / organization?" is one of the following answers ("2-10", "11-50", "51-500", "501-1,000", "1,001-5,000", "More than 5,000", "Not sure")**

**33) How many people in total are involved in data analysis at your company?\***

- ☐ Just me
- ☐ 2-10
- ☐ 11-50
- ☐ 51-200
- ☐ 201-500
- ☐ More than 500
- ☐ Not sure

**Logic: Hidden unless: (#2 Question "For you, data analysis is...?" is one of the following answers ("Your primary professional activity", "A secondary/additional activity that you perform as part of your job") AND #43 Question "How many people work for your company / organization?" is one of the following answers ("2-10", "11-50", "51-500", "501-1,000", "1,001-5,000", "More than 5,000", "Not sure"))**

**34) Which of the following best describes your job role(s) regardless of your position level?\***

- ☐ Developer
- ☐ Architect
- ☐ Data Scientist
- ☐ Data Analyst
- ☐ Data Architect
- ☐ Data Engineer
- ☐ Statistician

- ☐ Business Analyst
- ☐ Data and Analytics Manager
- ☐ Researcher
- ☐ Consultant
- ☐ General/Product Manager
- ☐ Other – Write In: \_\_\_\_\_ \*

**Logic: Hidden unless: (#2 Question "For you, data analysis is..." is one of the following answers ("Your primary professional activity", "A secondary/additional activity that you perform as part of your job") AND #43 Question "How many people work for your company / organization?" is one of the following answers ("2-10", "11-50", "51-500", "501-1,000", "1,001-5,000", "More than 5,000", "Not sure"))**

**35) What is your manager's level of expertise in data analysis?**

- ☐ Top expert in data analysis
- ☐ Highly qualified data analysis specialist
- ☐ Has average qualifications in data analysis
- ☐ Has basic qualifications in data analysis
- ☐ Has no qualifications in data analysis

**Logic: Hidden unless: (#2 Question "For you, data analysis is..." is one of the following answers ("Your primary professional activity", "A secondary/additional activity that you perform as part of your job") AND #43 Question "How many people work for your company / organization?" is one of the following answers ("2-10", "11-50", "51-500", "501-1,000", "1,001-5,000", "More than 5,000", "Not sure"))**

**36) To what extent do you associate the following phrase with your manager?**

*1= not at all, 5= a great deal*

	1	2	3	4	5
"My manager gives me realistic assignments that are relevant to my skills and responsibilities, with a clear and specific description of the requirements."	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>