

2024



ARTIFICIAL INTELLIGENCE

Talent & Salary Report

UK | Europe | USA

understanding
RECRUITMENT

The Market

2023 marked a significant milestone as the Year of AI, and the transformative impact across diverse industries has been unmistakable. The seismic shifts observed over the past year are attributable to the remarkable capabilities of Artificial Intelligence (AI) in elevating efficiency, amplifying productivity, and refining decision-making processes. The intricate ability of AI to navigate extensive datasets, automate intricate tasks, and furnish invaluable insights has emerged as a driving force, fuelling innovation and establishing itself as a cornerstone in the dynamic landscape of technology.

As we propel into 2024, the evolution of Machine Learning (ML) and Artificial Intelligence continues to redefine industries and reshape the technological horizon.

Here's a glimpse into our predictions for the continued growth of AI in the coming year:

- **Explainable AI:** Transparency is essential as AI grows, with a focus on making AI decisions understandable.
- **Federated Learning:** Privacy-centric AI, where models learn from decentralised data, enhancing data security.
- **AI in Healthcare:** Personalised medicine, disease prediction, and drug discovery are advancing healthcare.

- **AI at the Edge:** Real-time AI processing on devices like smartphones, boosting responsiveness.
- **AI Ethics:** Frameworks and tools for ethical AI and bias reduction are emerging.
- **Quantum ML:** Quantum computing promises rapid solutions to complex AI problems.
- **RPA with AI:** Robotic Process Automation combined with AI streamlines business processes.
- **AI and Creativity:** AI collaborates with artists, writers, and musicians, sparking creative content.
- **AI for Climate:** AI aids in climate solutions by optimising energy and analysing climate data.
- **NLP Advancements:** Large language models enhance natural language processing for diverse applications.

Derived from LinkedIn insights and a survey of 282 professionals in machine learning, AI, and data fields, our Talent and Salary Report provides concise insights for staying ahead in AI, machine learning, research, data science, and engineering*. We hope you enjoy it!

*All data presented in this report is accurate as of its creation in December 2023.



Our 2023 Highlights

In 2023, our specialist Artificial Intelligence team facilitated a total of 132 successful placements extending across a variety of domains, including Healthcare, Ed-tech, Marketing, Web3, and GenAI, to name a few.

With a focus on Machine Learning and Data Science and Engineering placements, our team showcased remarkable expertise in seamlessly linking top-tier talent to cutting-edge opportunities within the dynamic and ever-evolving realm of Artificial Intelligence.

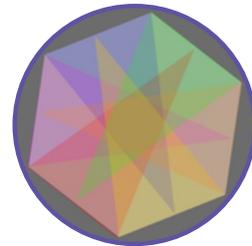
Just some of the visionary companies we worked with:



Unitary



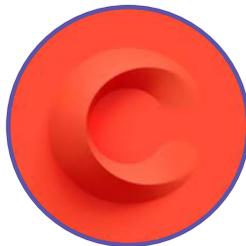
TikTok



Polygeist



Gambit Research



Cruise



Poly AI

"Without UR, we wouldn't have handled the rapid growth needed for our AI start-up. The UR team - Anna specifically - were incredible partners in our search for new people to join Unitary. Not only did they find people with the best skills, they quickly understood our unique culture and were able to hand-pick candidates who they thought would be a good fit for us.

They were right - and here we are sitting with loads of kind, collaborative and smart people who came to Unitary via UR. Our team would not be the same without you. Thank you!"

Linnéa Belding - Head of People & Culture
Unitary

Machine Learning Overview

United Kingdom:

2,497

Professionals with the title 'Machine Learning Engineer' in the UK talent pool on LinkedIn.

81% / 19%

The gender split in the industry, with males accounting for the majority of professionals in the UK.

1.3 Years

Is the median tenure of Machine Learning professionals in the UK before they are likely to move into a new role.

Europe:

13,743

Professionals with the title 'Machine Learning Engineer' in the European talent pool on LinkedIn.

82% / 18%

The gender split in the industry, with males accounting for the majority of professionals in Europe.

1.3 Years

Is the median tenure of Machine Learning professionals in Europe before they are likely to move into a new role.

United States of America:

14,459

Professionals with the title 'Machine Learning Engineer' in the USA talent pool on LinkedIn.

77% / 23%

The gender split in the industry, with males accounting for the majority of professionals in the USA.

1.2 Years

Is the median tenure of Machine Learning professionals in the USA before they are likely to move into a new role.



Machine Learning Location

Where is Machine Learning talent located?

London stands out as the central hub for Machine Learning talent with 1,506 professionals on LinkedIn in the UK but let's take a closer look at other hotspots too...

London

1,506 professionals

Cambridge

119 professionals

Bristol

95 professionals

Edinburgh

77 professionals

Manchester

70 professionals



In Europe, London leads the way again, closely followed by Paris, and the Netherlands.



London

1,506 professionals

Paris

846 professionals

Netherlands

675 professionals

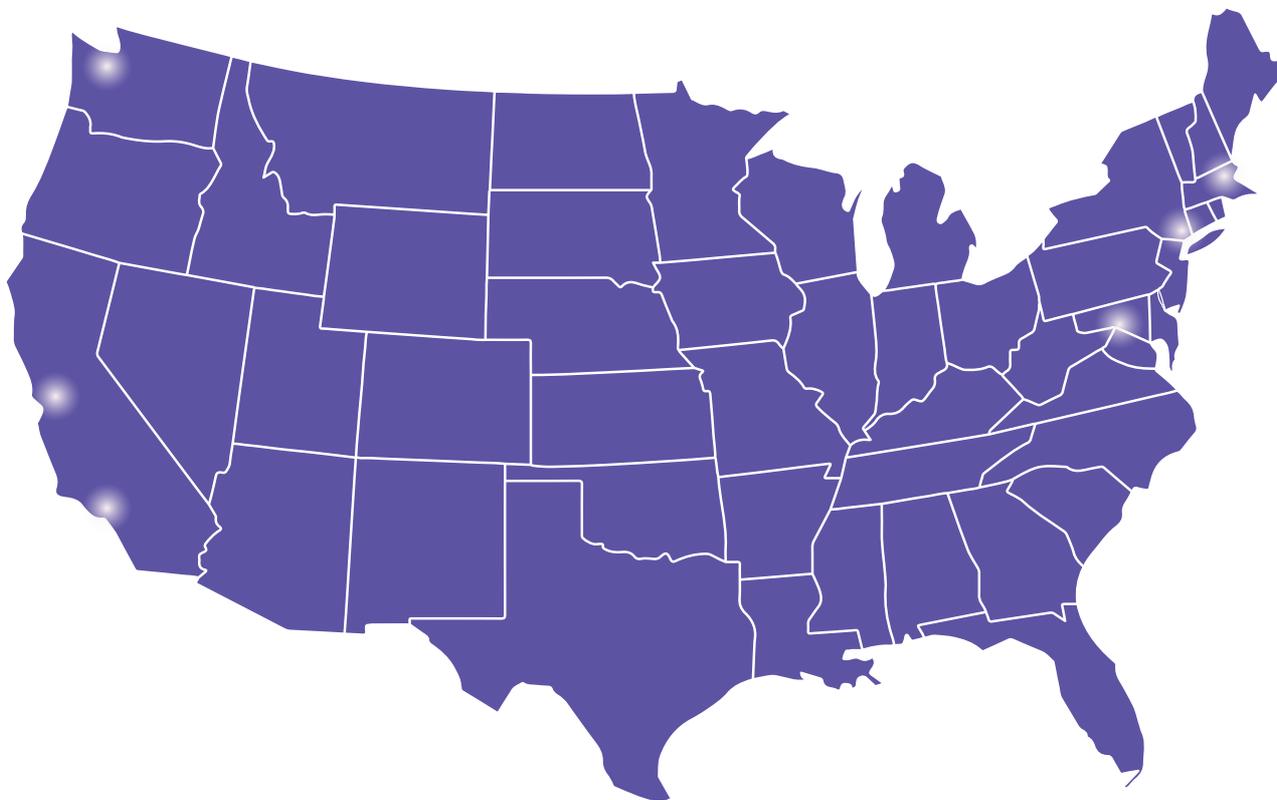
Berlin

563 professionals

Munich

455 professionals

In the United States, **San Francisco claims the top spot for Machine Learning talent**, surpassing New York City by 64%. New York City secures the second position, with Greater Seattle closely following as the third-ranking hub.



San Francisco
4,742 professionals

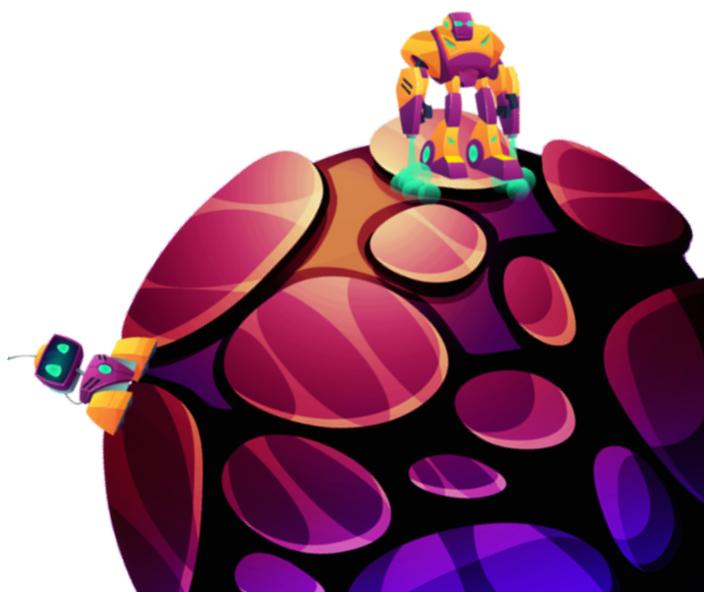
New York City
1,691 professionals

Greater Seattle
1,123 professionals

Greater Boston
754 professionals

Los Angeles
651 professionals

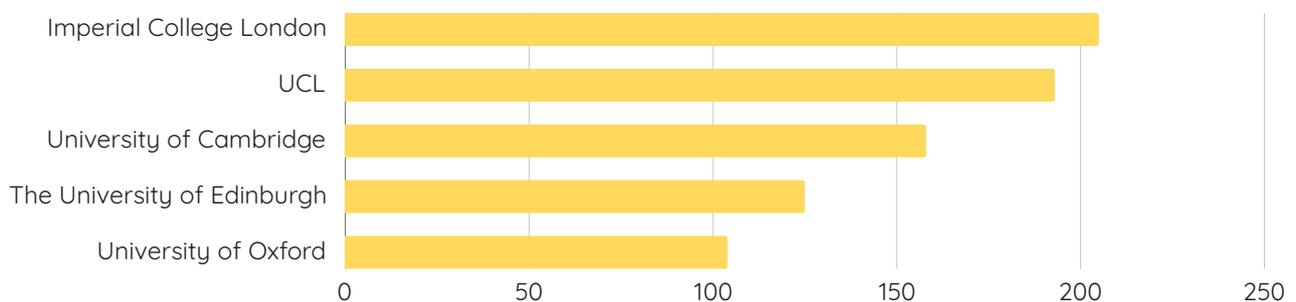
Washington DC
624 professionals



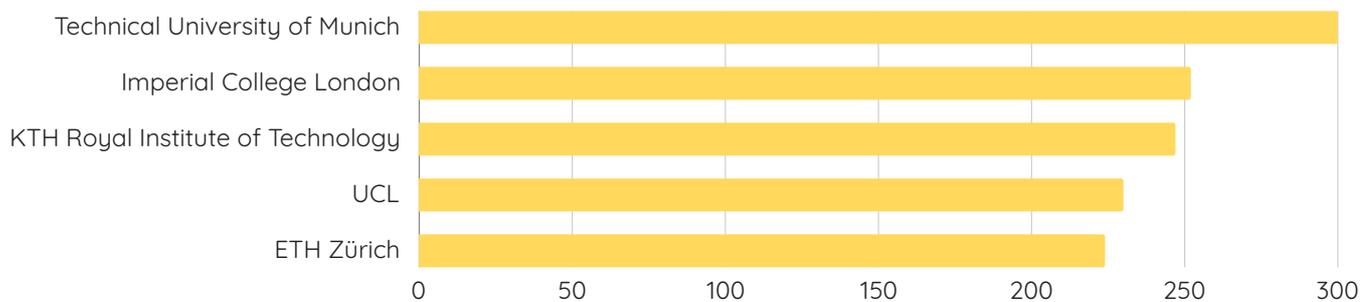
Machine Learning Universities Producing Talent

In this section, we explore the academic backgrounds of machine learning professionals in the UK, Europe, and the US, spotlighting the varied institutions that have been instrumental in shaping their expertise.

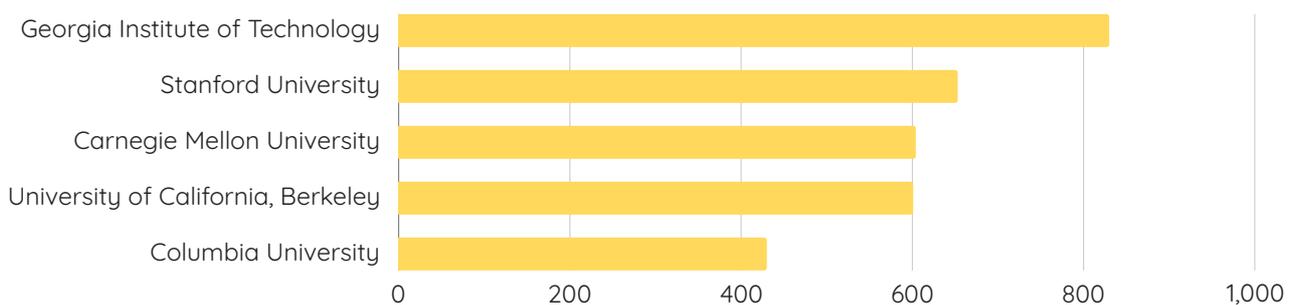
UK



Europe



USA

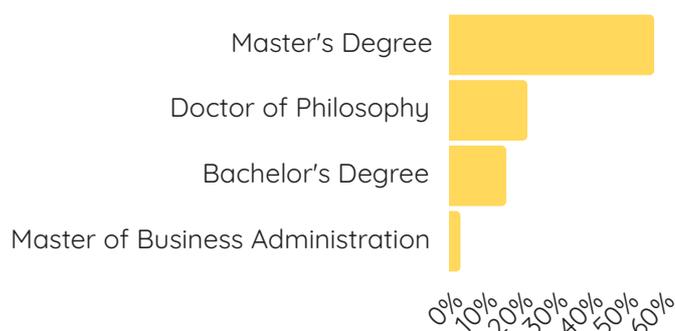


Machine Learning Degrees & Fields of Study

Let's explore the educational backgrounds of machine learning professionals, uncovering a range of degrees and fields of study. From computer science and artificial intelligence to mathematics, these experts bring a mix of specialised knowledge to the table.

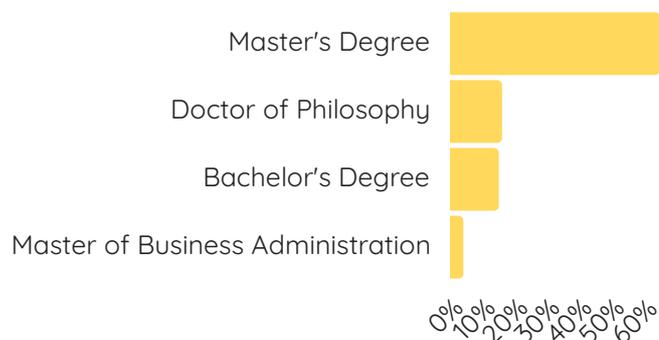
UK Professionals

1. **Computer Science** - 885
2. **Computational Science** - 713
3. **Mathematics** - 430
4. **Physics** - 424
5. **Artificial Intelligence** - 311



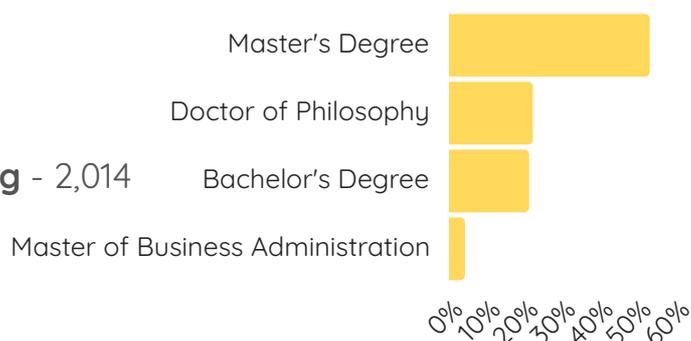
European Professionals

1. **Computer Science** - 5,300
2. **Computational Science** - 4,044
3. **Mathematics** - 1,840
4. **Artificial Intelligence** - 1,772
5. **Physics** - 1,518



US Professionals

1. **Computer Science** - 8,043
2. **Computational Science** - 6,823
3. **Electrical & Electronics Engineering** - 2,014
4. **Mathematics** - 1,647
5. **Data Science** - 1,495



Machine Learning Top Employers

Which companies are employing talent in the UK?



Kubrick Group
117 Professionals



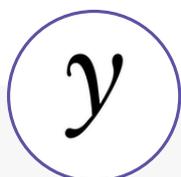
Meta
81 Professionals



Deliveroo
47 Professionals



Apple
37 Professionals



Faculty
32 Professionals



GSK
27 Professionals



Snap Inc.
25 Professionals



Sky
17 Professionals

Which companies lead in hiring Machine Learning talent across Europe?



Apple
163 Professionals



Meta
128 Professionals



Kubrick Group
117 Professionals



Deliveroo
54 Professionals



Yandex
52 Professionals



Omdena
52 Professionals



Bosch
51 Professionals



Spotify
49 Professionals

Which companies stand out as major employers of top-tier talent in the USA?



Apple

924 Professionals



Meta

483 Professionals



Google

259 Professionals



Adobe

177 Professionals



TikTok

175 Professionals



Capital One

173 Professionals



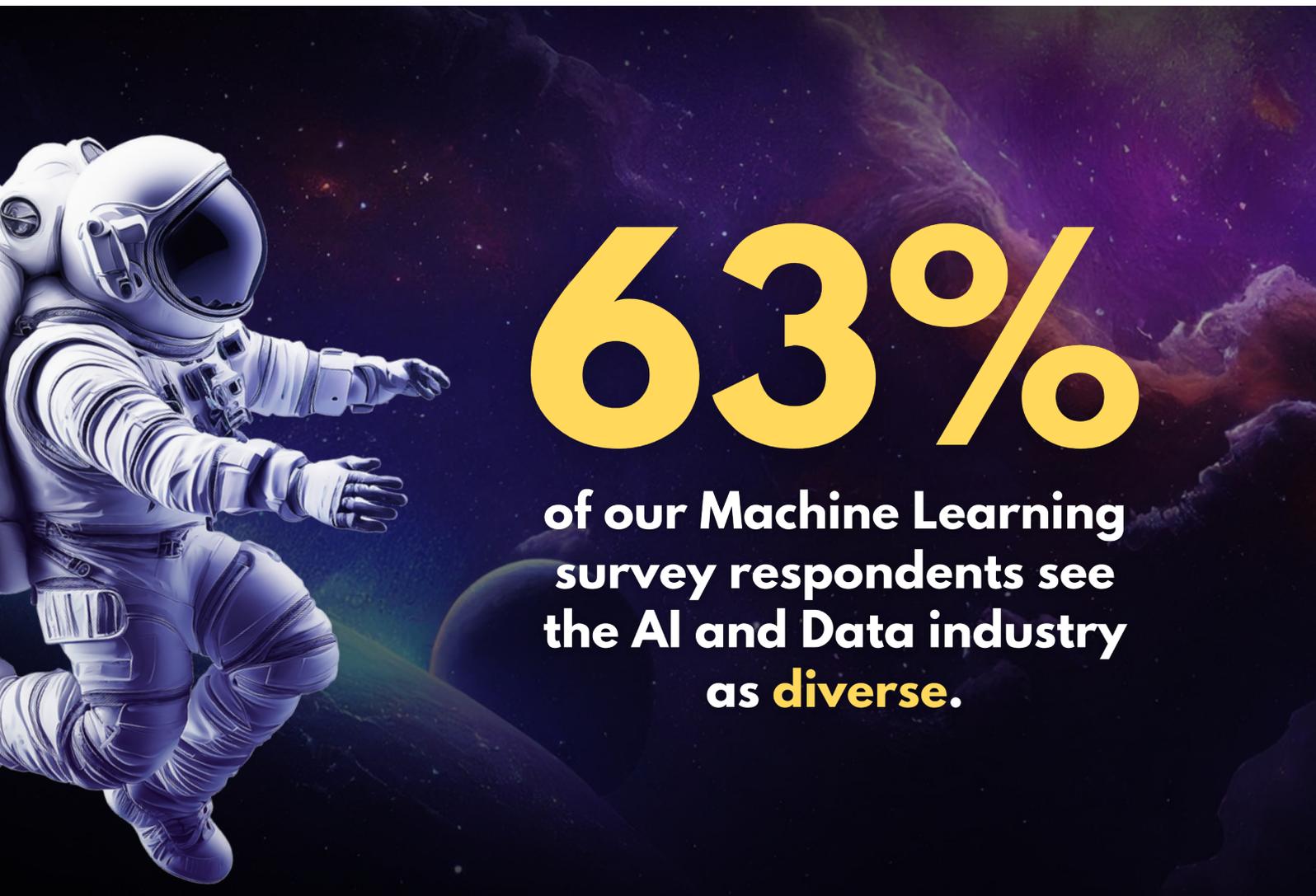
Lockheed Martin

168 Professionals



Amazon

165 Professionals



63%

of our Machine Learning survey respondents see the AI and Data industry as **diverse**.

Machine Learning Salary Guide

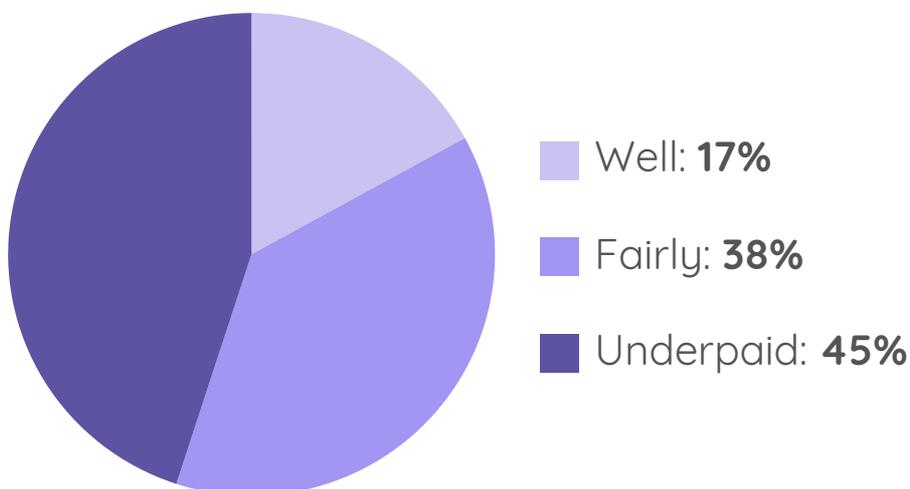
Average salaries for different roles/levels based on our placement data and survey results:

UK		
Machine Learning Engineer	Grad	£46,000
	Junior	£59,000
	Mid	£75,020
	Senior	£89,500
	Staff	£94,680
	Manager/Lead	£111,300
	Head Of	£131,003
	Research Engineer	Junior
	Mid	£78,500
	Senior/Staff	£93,200
	Head of Research	£122,300
Prompt Engineer	Junior	£48,000
	Mid	£65,200
	Staff/Senior	£81,000
Europe		
Machine Learning Engineer	Grad	€41,900
	Junior	€58,000
	Mid	€71,785
	Senior	€83,442
	Staff	€96,751
	Manager/Lead	€118,200
	Head Of	€134,322
	Research Engineer	Junior
	Mid	€81,400
	Senior/Staff	€101,222
	Head of Research	€133,200

Prompt Engineer	Junior	€56,000
	Mid	€69,120
	Staff/Senior	€93,009
USA		
Machine Learning Engineer	Grad	\$92,538
	Junior	\$117,875
	Mid	\$130,800
	Senior	\$159,800
	Staff	\$182,390
	Manager/Lead	\$201,500
	Head Of	\$232,739
Research Engineer	Junior	\$129,921
	Mid	\$145,000
	Senior/Staff	\$185,201
	Head of Research	\$241,800
Prompt Engineer	Junior	\$168,400
	Mid	\$183,200
	Staff/Senior	\$227,000

Do you feel that you are remunerated well or are you underpaid?

According to our recent survey, an astonishing **45% of professionals** in the field of Machine Learning express a sentiment of being **undervalued in terms of their compensation**.



Data Science Overview

United Kingdom:

14,222

Data Science Professionals in the UK talent pool on LinkedIn.

70% / 30%

The gender split in the industry, with males accounting for the majority of professionals in the UK.

1.3 Years

Is the median tenure of Data Science professionals in the UK before they are most likely to move into a new role.

Europe:

72,183

Data Science Professionals in the European talent pool on LinkedIn.

71% / 29%

The gender split in the industry, with males accounting for the majority of professionals in Europe.

1.3 Years

Is the median tenure of Data Science professionals in Europe before they are likely to move into a new role.

United States of America:

66,726

Data Science Professionals in the USA talent pool on LinkedIn.

67% / 33%

The gender split in the industry, with males accounting for the majority of professionals in the USA.

1.4 Years

Is the median tenure of Data Science professionals in the USA before they are likely to move into a new role.



Data Science Location

Where is Data Science talent located?

London, Manchester, and Bristol have surfaced as the primary hubs for Data Science talent in the UK, as per insights from LinkedIn.

London

7,199 professionals

Manchester

597 professionals

Bristol

563 professionals

Edinburgh

389 professionals

Leeds

315 professionals



In Europe, London takes the lead, followed closely by Paris and the Netherlands.



London

7,199 professionals

Paris

5,349 professionals

Netherlands

3,793 professionals

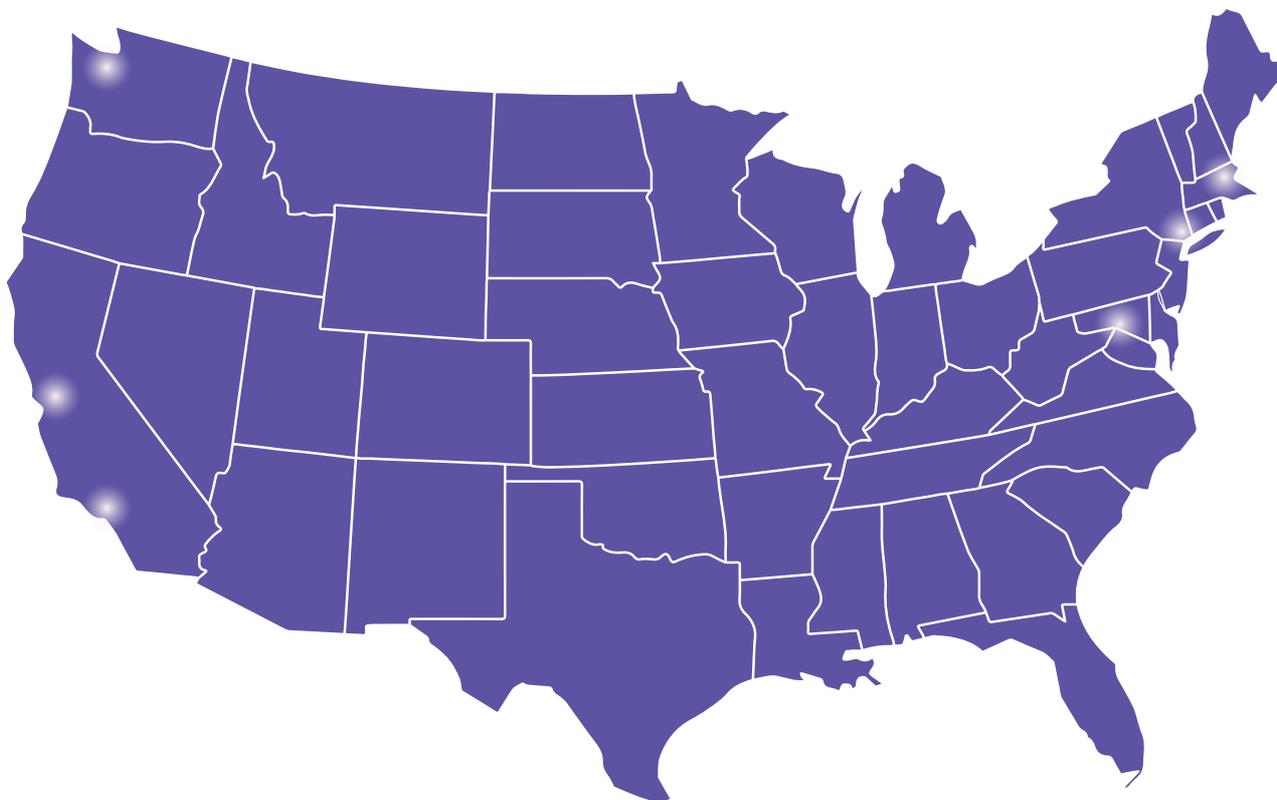
Madrid

2,743 professionals

Berlin

2,138 professionals

In the US, the major player in Data Science are **San Francisco with 10,029** professionals on LinkedIn, followed by New York City, and Washington DC.



San Francisco
10,029 professionals

New York City
8,160 professionals

Washington DC
4,952 professionals

Greater Seattle
4,205 professionals

Greater Boston
3,431 professionals

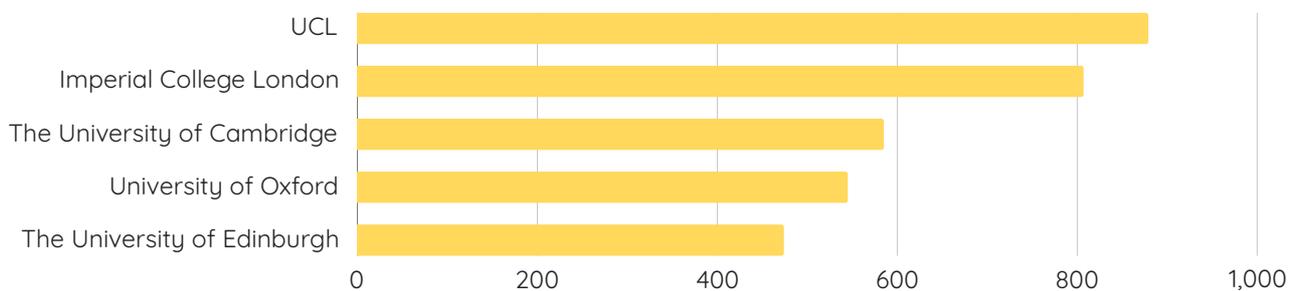
Los Angeles
2,926 professionals



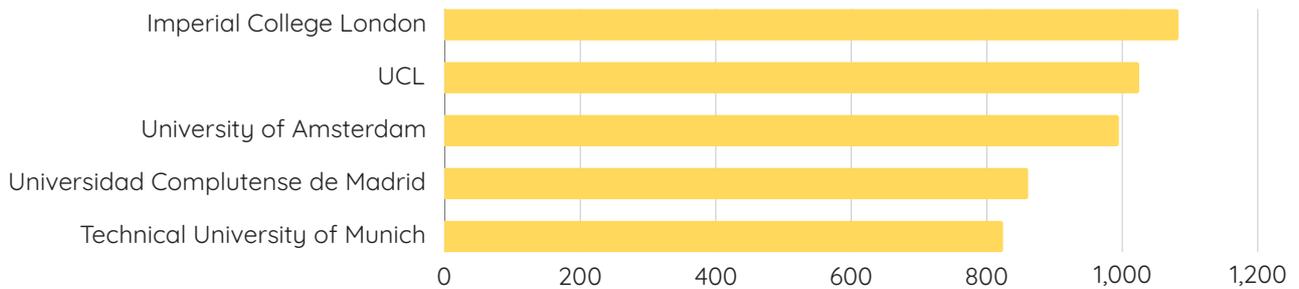
Data Science Universities Producing Talent

This section delves into the diverse academic backgrounds that contribute to the fabric of data science excellence, exploring the universities attended by these professionals and shedding light on the educational journeys that shape their analytical prowess.

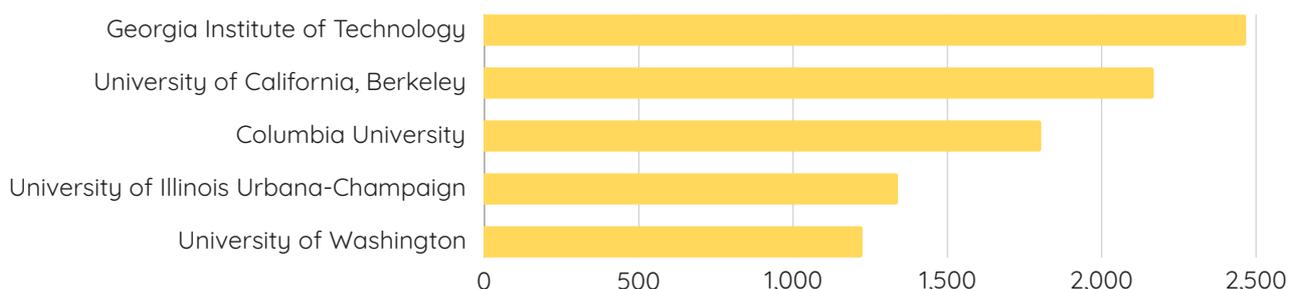
UK



Europe



USA

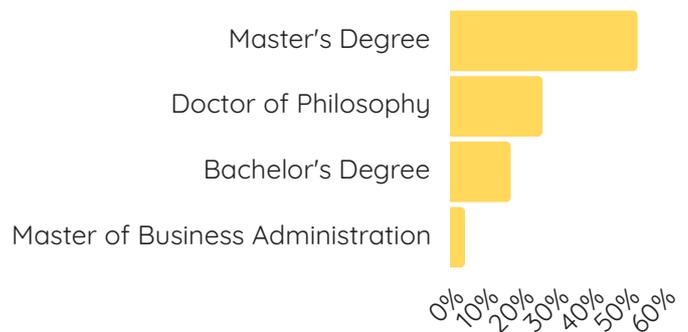


Data Science Degrees & Fields of Study

This section delves into the educational nuances, exploring the varied academic paths and disciplines pursued by these professionals. **Mathematics emerges as the predominant field of study among data science professionals in the UK and Europe**, while in the United States, Computer Science takes precedence.

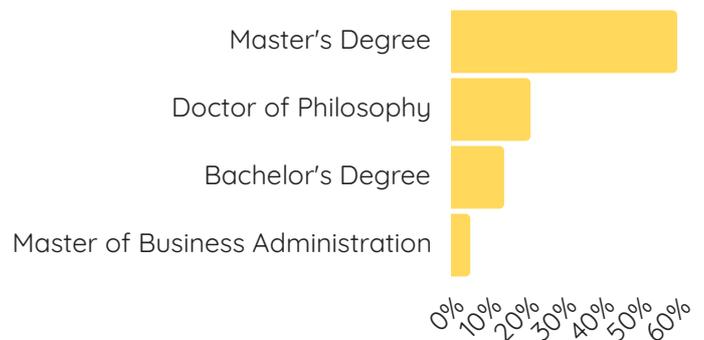
UK Professionals

1. **Mathematics** - 3,393
2. **Data Science** - 2,477
3. **Physics** - 2,451
4. **Computer Science** - 2,203
5. **Computational Science** - 1,724



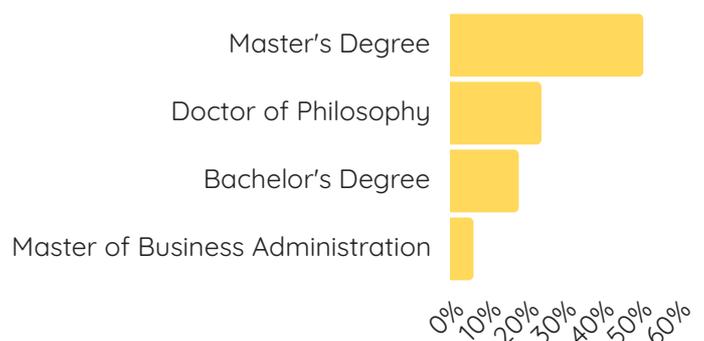
European Professionals

1. **Mathematics** - 14,042
2. **Computer Science** - 12,178
3. **Data Science** - 11,433
4. **Physics** - 11,173
5. **Computational Science** - 8,482



US Professionals

1. **Computer Science** - 12,600
2. **Data Science** - 11,295
3. **Computational Science** - 10,457
4. **Mathematics** - 9,939
5. **Statistics** - 9,379



Data Science Top Employers

Which companies are employing Data Science talent in the UK?



Lloyds Banking Group
183 Professionals



Meta
159 Professionals



Office for National Statistics
134 Professionals



NatWest Group
116 Professionals



Deliveroo
100 Professionals



Aviva
93 Professionals



Expedia Group
76 Professionals



Sky
72 Professionals

Which companies lead in hiring Data Science talent across Europe?



Accenture
302 Professionals



IBM
262 Professionals



Capgemini
220 Professionals



Meta
207 Professionals



BBVA
205 Professionals



Vodafone
203 Professionals



Roche
196 Professionals



Bayer
184 Professionals

Which companies stand out as major employers of top-tier talent in the USA?



Microsoft

1,269 Professionals



Meta

1,124 Professionals



Google

821 Professionals



Booz Allen Hamilton

805 Professionals



Amazon

797 Professionals



IBM

566 Professionals



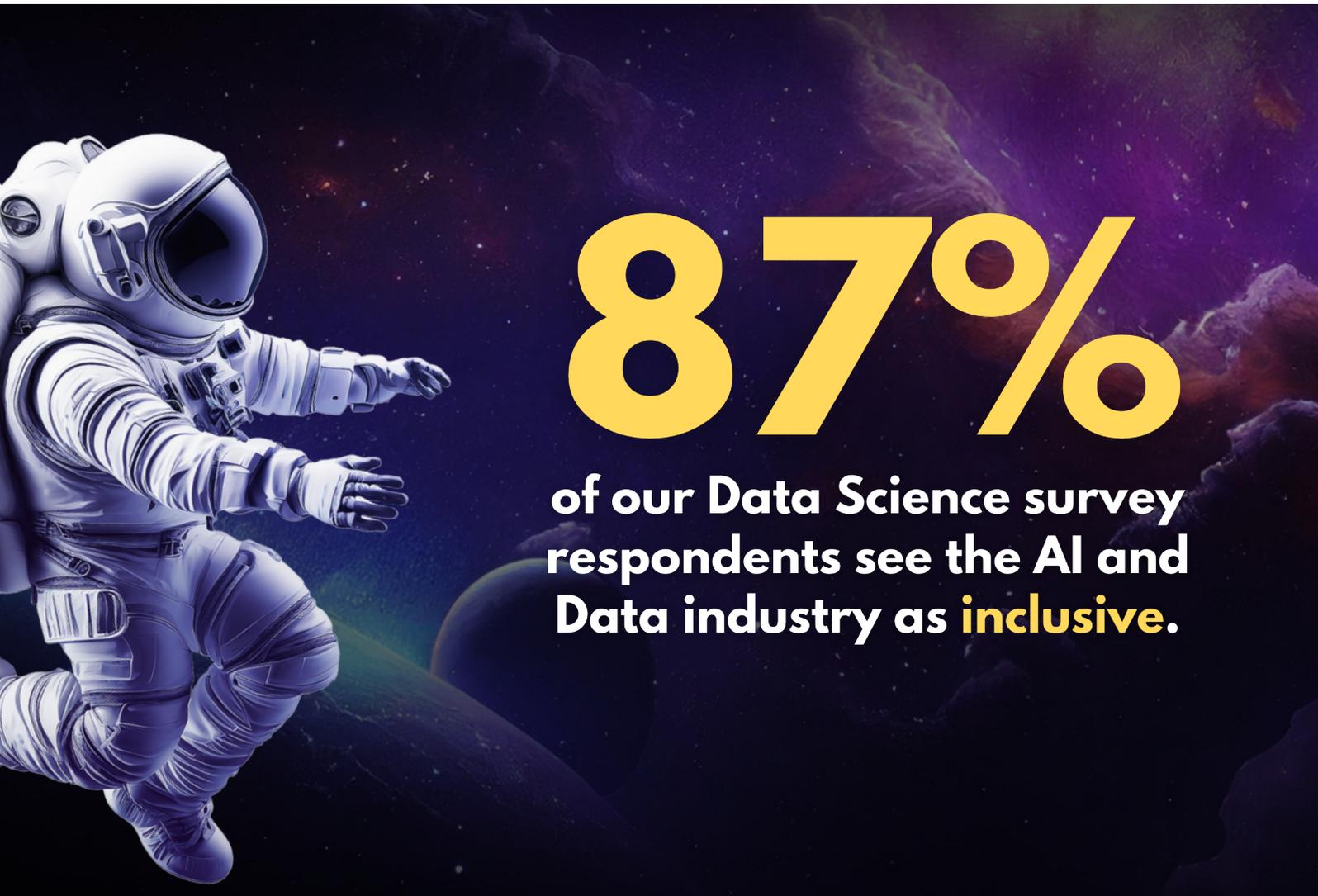
Apple

485 Professionals



Walmart Global Tech

484 Professionals



87%

of our Data Science survey respondents see the AI and Data industry as **inclusive**.

Data Science Salary Guide

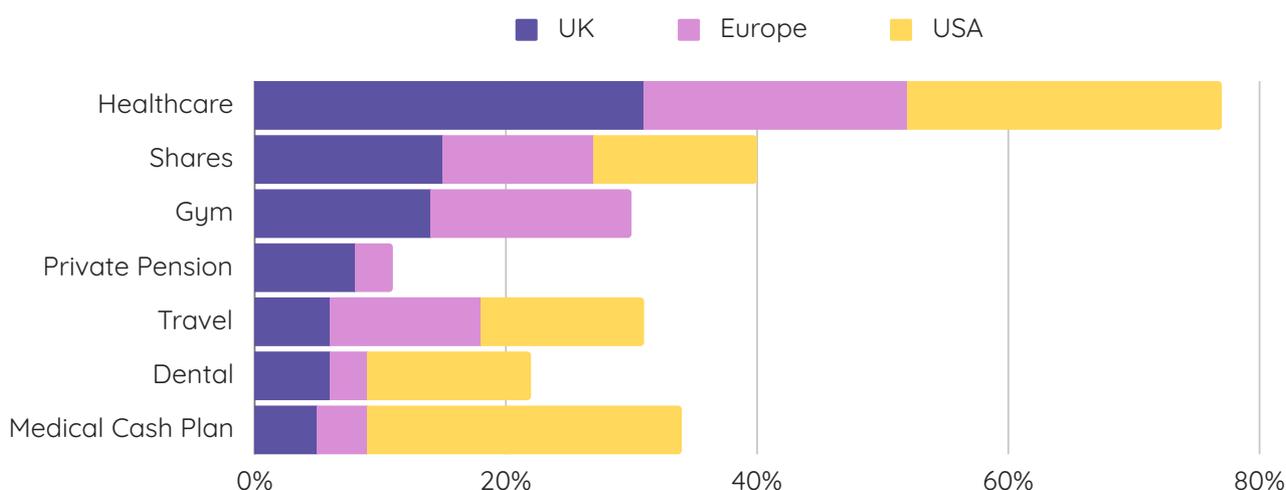
Average salaries for different roles/levels based on our placement data and survey results:

UK		
Data Scientist	Grad	£53,230
	Junior	£66,900
	Mid	£72,000
	Senior	£84,000
	Staff	£87,000
	Manager/Lead	£98,400
	Head Of	£132,000
Europe		
Data Scientist	Grad	€51,328
	Junior	€62,300
	Mid	€74,753
	Senior	€88,700
	Staff	€96,487
	Manager/Lead	€110,303
	Head Of	€128,500
USA		
Data Scientist	Grad	\$102,300
	Junior	\$136,499
	Mid	\$162,100
	Senior	\$183,400
	Staff	\$202,000
	Manager/Lead	\$213,400
	Head Of	\$272,304

Machine Learning & Data Science Benefits

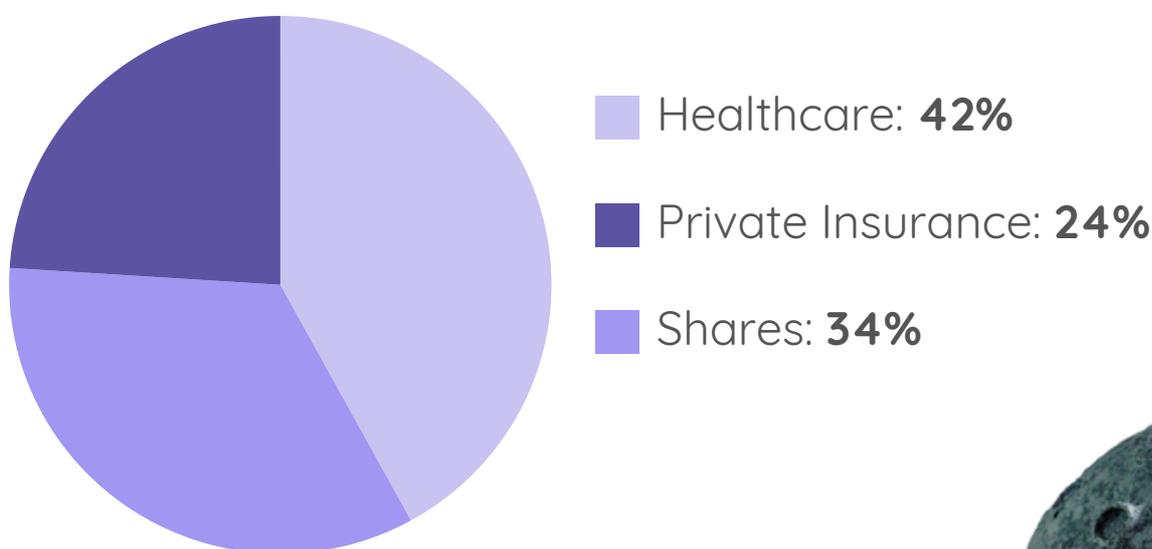
What benefits do Machine Learning & Data Science professionals typically get?

Here are the current benefits reported by machine learning and data science professionals based on our survey findings.



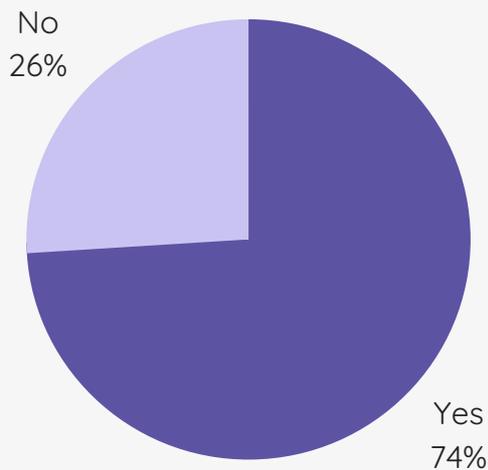
Which 3 benefits do Machine Learning & Data Science professionals find most important?

The data below provides valuable insights into the top 3 benefits that machine learning and data science professionals prioritise across the UK, Europe, and the US.

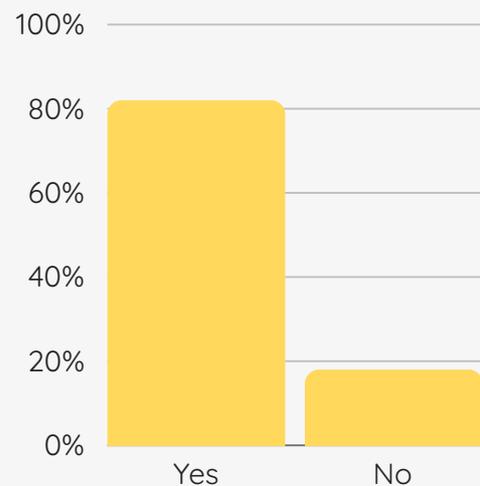


Machine Learning & Data Science Hybrid Working

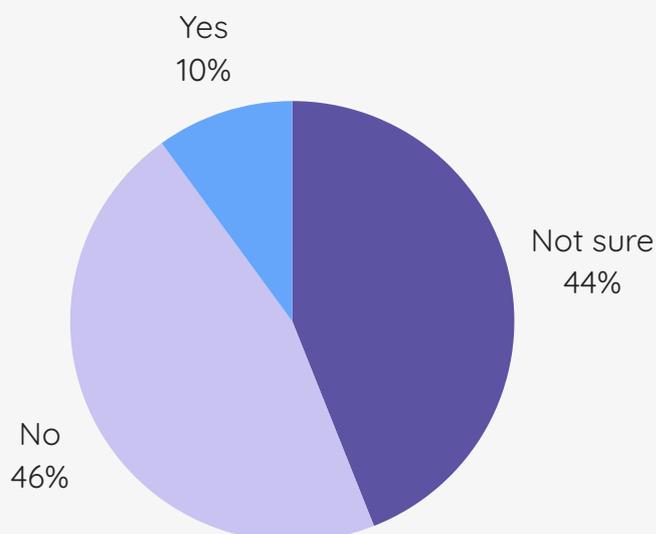
Are Machine Learning & Data Science professionals offered flexi-time?



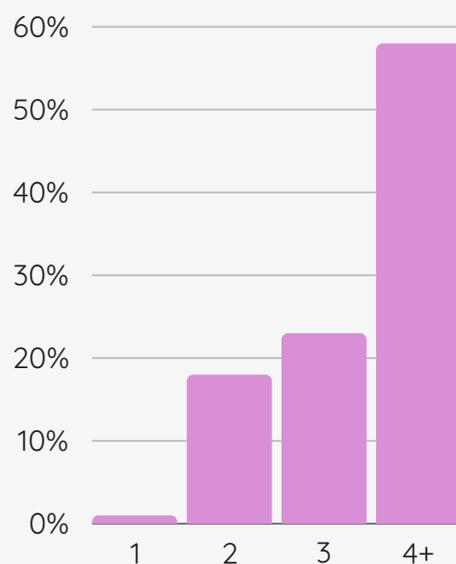
Are Machine Learning & Data Science professionals offered remote working?



Would they accept a job that DIDN'T offer remote working?



How many days are professionals allowed to work remotely?

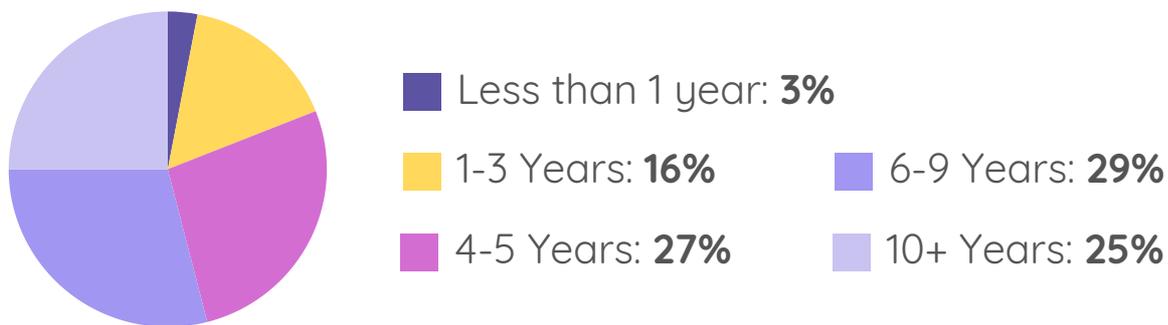


Machine Learning & Data Science

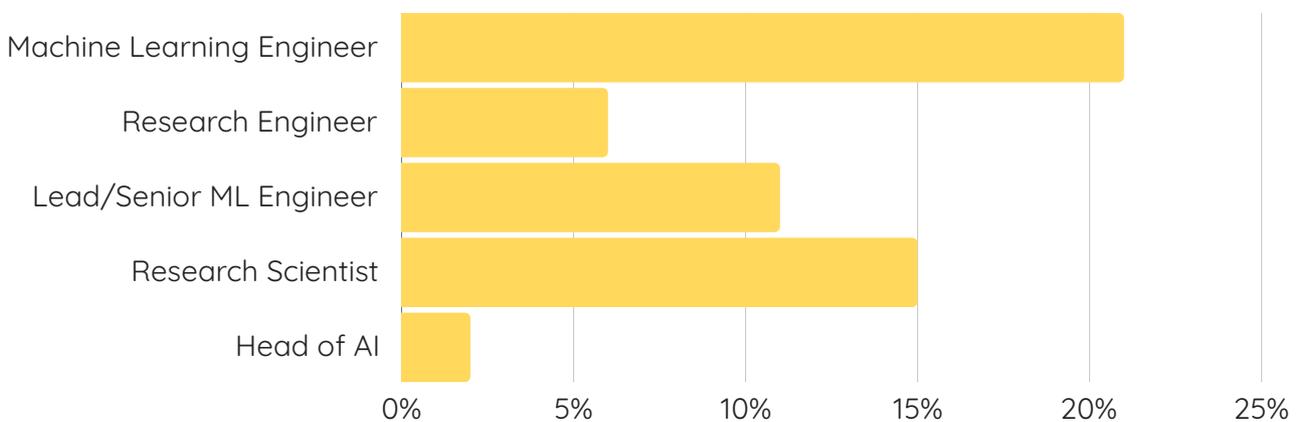
What else did they have to say?

We surveyed Machine Learning and Data Science experts to gain a deeper understanding of the field and to explore their predictions for the future. Here's what they said:

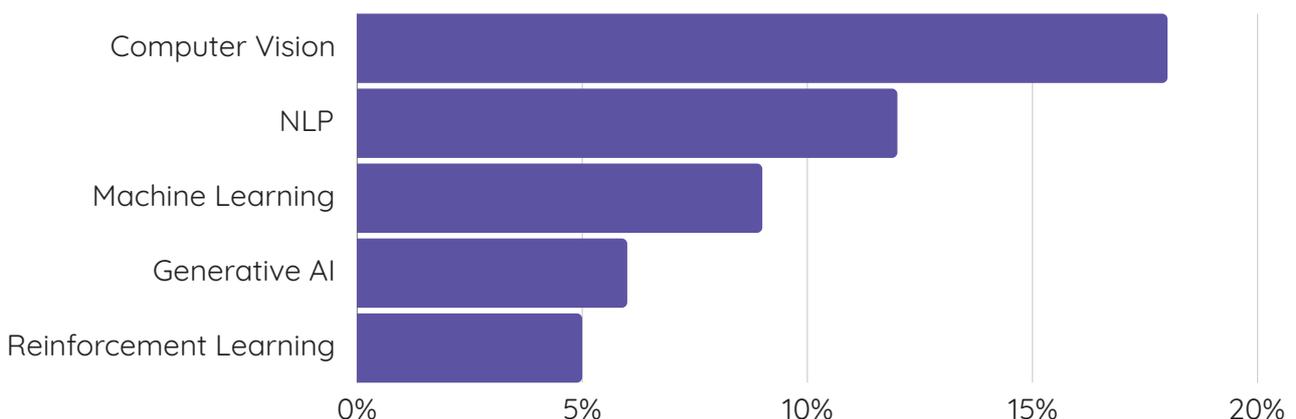
How many years of experience do you have?



What is closest to your current job title?



What is the most interesting area of AI and Big Data for you?



Data Engineering Overview

United Kingdom:

14,101

Professionals with the title 'Data Engineer' in the UK talent pool on LinkedIn.

78% / 22%

The gender split in the industry, with males accounting for the majority of professionals in the UK.

1.4 Years

Is the median tenure of Data Engineering professionals in the UK before they are likely to move into a new role.

Europe:

62,129

Professionals with the title 'Data Engineer' in the Europe talent pool on LinkedIn.

77% / 23%

The gender split in the industry, with males accounting for the majority of professionals in Europe.

1.3 Years

Is the median tenure of Data Engineering professionals in Europe before they are likely to move into a new role.

United States of America:

64,229

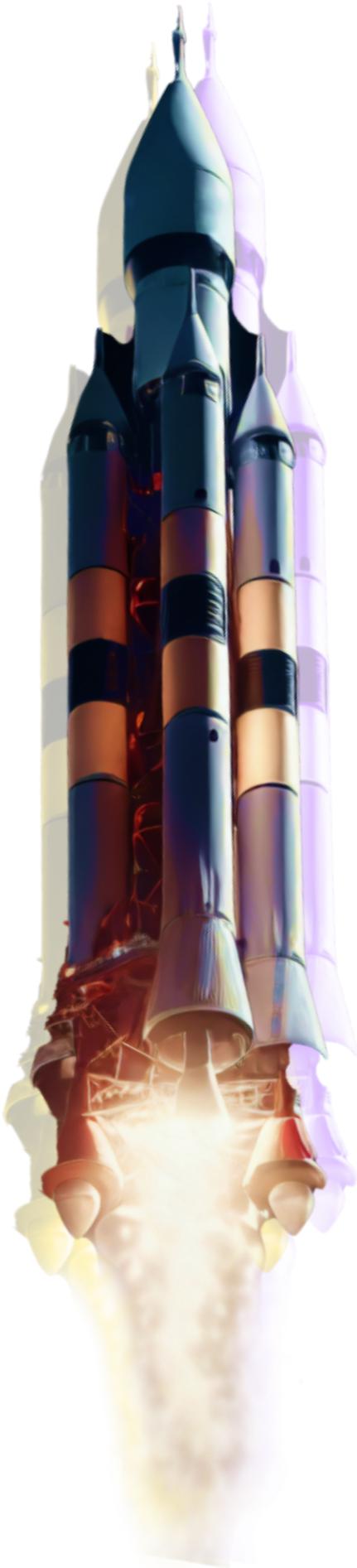
Professionals with the title 'Data Engineer' in the USA talent pool on LinkedIn.

70% / 30%

The gender split in the industry, with males accounting for the majority of professionals in the USA.

1.3 Years

Is the median tenure of Data Engineering professionals in the USA before they are likely to move into a new role.



Data Engineering Location

Where is Data Engineering talent located?

London stands as the primary UK hub for a significant concentration of Data Engineering talent.

London

6,118 professionals

Manchester

684 professionals

Bristol

556 professionals

Leeds

445 professionals

Edinburgh

396 professionals



London leads with 6,118 data engineering professionals, followed by Paris (4,818) and the Netherlands (3,291), showcasing the hierarchical distribution of expertise in Europe.



London

6,118 professionals

Paris

4,818 professionals

Netherlands

3,291 professionals

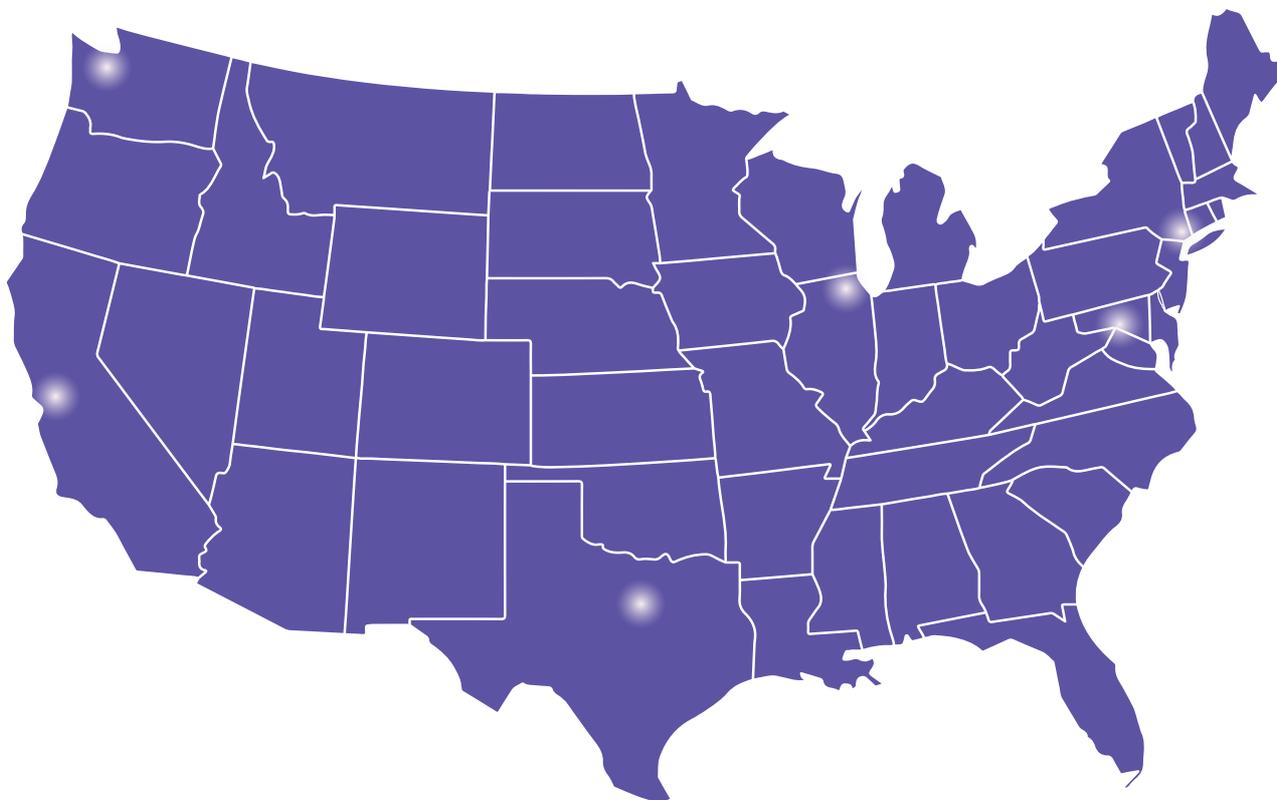
Madrid

1,831 professionals

Berlin

1,723 professionals

In the United States, **New York City** takes the lead in the ranking with **6,143 data engineers** according to LinkedIn, very closely followed by Dallas and San Francisco.



New York City
6,143 professionals

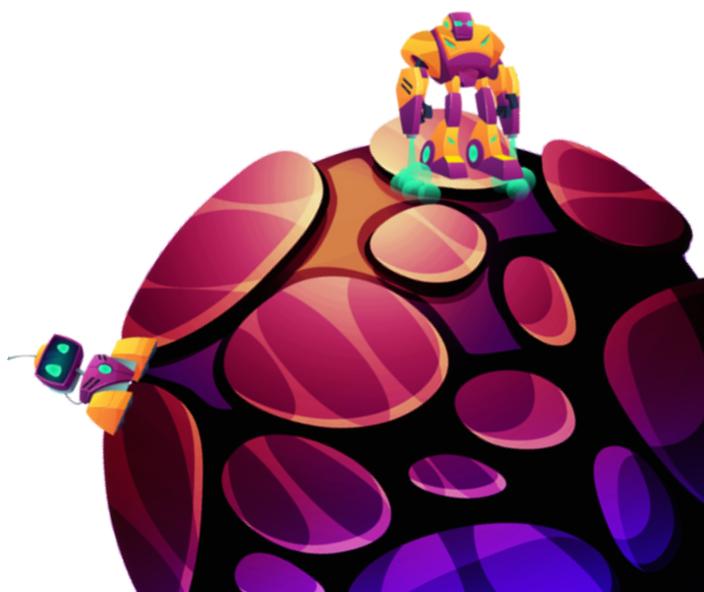
Dallas
6,025 professionals

San Francisco
5,441 professionals

Seattle
3,211 professionals

Washington DC
2,975 professionals

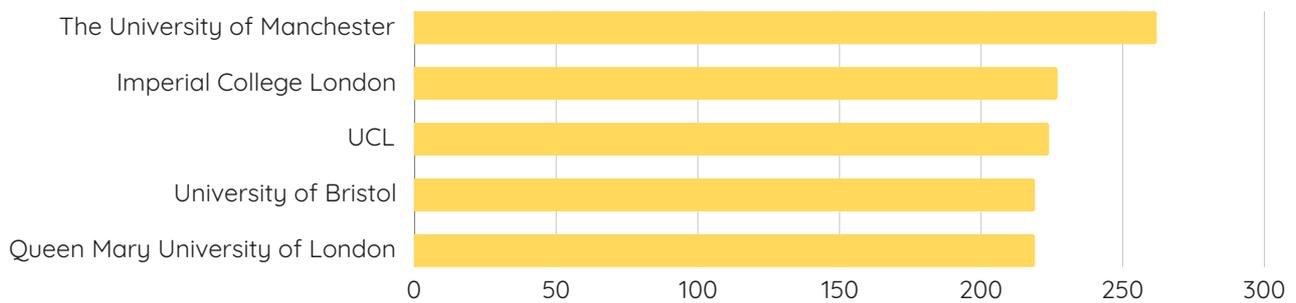
Chicago
2,737 professionals



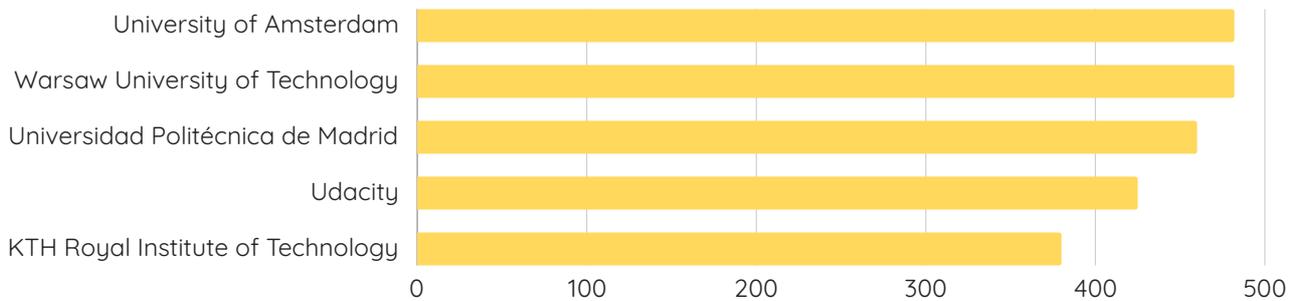
Data Engineering Universities Producing Talent

Within this section, we delve into the educational backgrounds of data engineering professionals across the UK, Europe, and the US. Our focus is on spotlighting the varied institutions that have played a crucial role in shaping and refining their expertise.

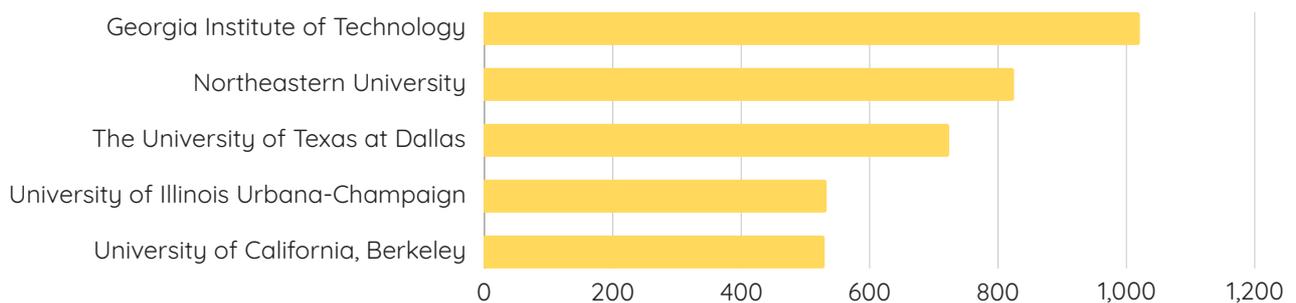
UK



Europe



USA

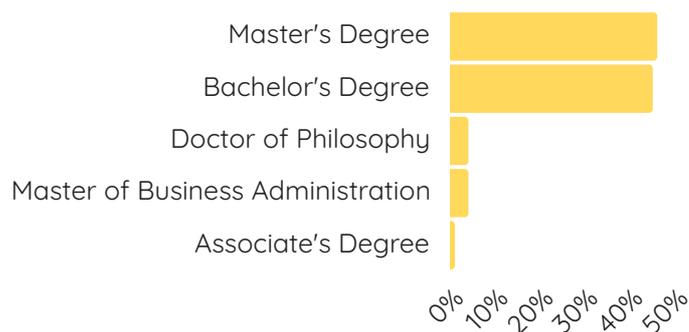


Data Engineering Degrees & Fields of Study

In this section, we take a closer look at the unique educational journeys of data engineering pros, uncovering the diverse paths that have shaped their expertise.

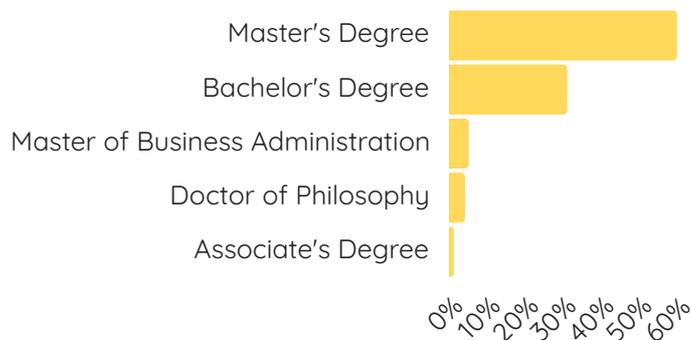
UK Professionals

1. **Computer Science** - 2,659
2. **Computational Science** - 2,259
3. **Mathematics** - 1,671
4. **Physics** - 1,062
5. **Information Technology** - 983



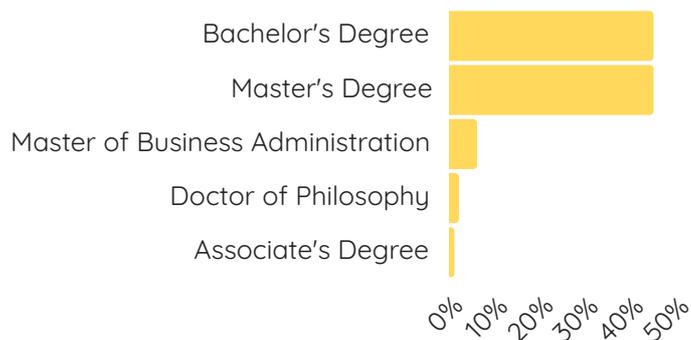
European Professionals

1. **Computer Science** - 12,394
2. **Computational Science** - 8,776
3. **Computer & Information Sciences & Support Services** - 6,429
4. **Information Technology** - 5,470
5. **Data Science** - 4,652



US Professionals

1. **Computer Science** - 20,031
2. **Computational Science** - 18,073
3. **Information Technology** - 6,510
4. **Data Science** - 4,102
5. **Mathematics** - 3,185



Data Engineering Top Employers

Which companies are employing talent in the UK?



Kubrick Group
297 Professionals



Lloyds Banking
156 Professionals



Sky
155 Professionals



Tata Consultancy Services
147 Professionals



NatWest Group
136 Professionals



Capgemini
92 Professionals



JLR
85 Professionals



BT Group
81 Professionals

Which companies lead in hiring Data Engineering talent across Europe?



Capgemini
576 Professionals



Accenture
325 Professionals



Kubrick Group
298 Professionals



Tata Consultancy Services
258 Professionals



EPAM Systems
221 Professionals



IBM
216 Professionals



Sopra Steria
168 Professionals



Solita
166 Professionals

Which companies stand out as major employers of top-tier talent in the USA?



Amazon

949 Professionals



Meta

707 Professionals



Capital One

423 Professionals



USAA

358 Professionals



Optum

342 Professionals



Amazon (AWS)

328 Professionals



Apple

316 Professionals



CVS Health

311 Professionals



67%

of Data Engineering survey respondents **would not** accept a role that didn't offer remote working.

Data Engineering Salary Guide

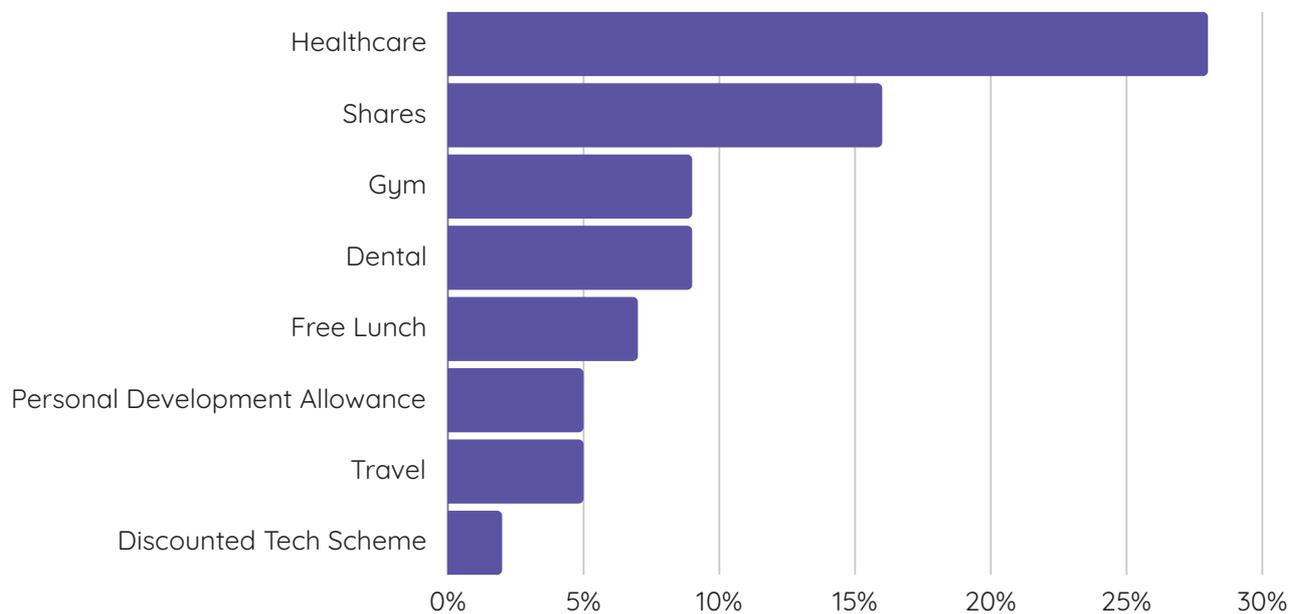
Average salaries for different roles/levels based on our placement data and survey results:

UK		
Data Engineer	Grad	£41,250
	Junior	£52,300
	Mid	£63,600
	Senior	£79,240
	Staff	£98,780
	Manager/Lead	£115,700
	Head of	£146,000
Europe		
Data Engineer	Grad	€38,560
	Junior	€47,500
	Mid	€59,870
	Senior	€69,800
	Staff	€88,780
	Manager/Lead	€97,600
USA		
Data Engineer	Grad	\$105,927
	Junior	\$144,790
	Mid	\$166,000
	Senior	\$190,600
	Staff	\$198,870
	Manager/Lead	\$212,330
	Head of	\$272,304

Data Engineering Benefits

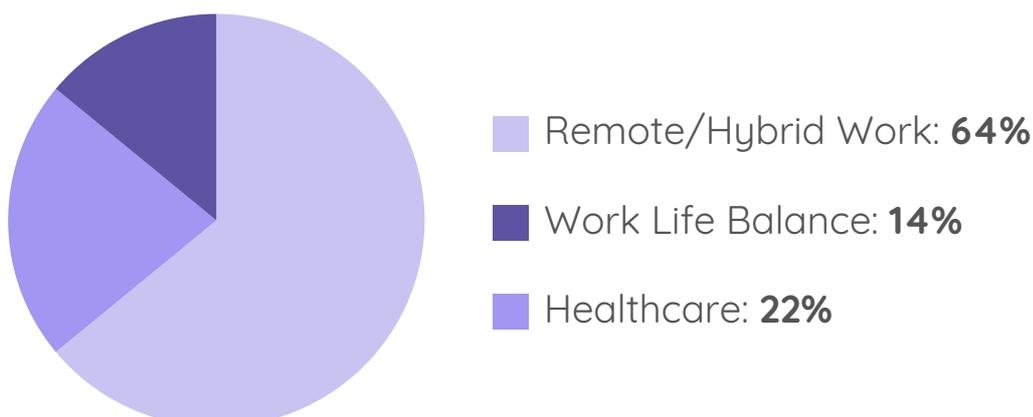
What benefits do Data Engineering professionals typically get?

Our survey highlights the primary concerns of data engineering professionals, with healthcare benefits and shares standing out as key priorities.



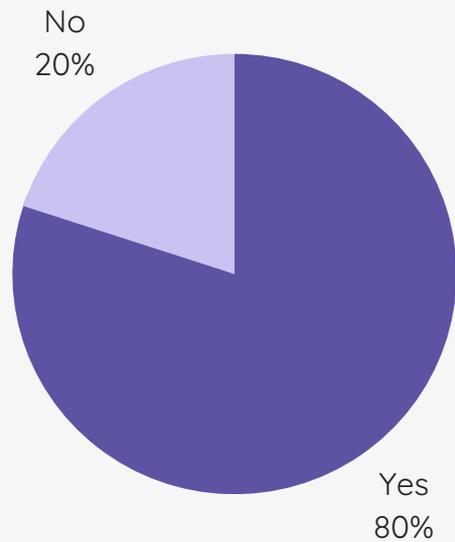
Which 3 benefits do Data Engineering professionals find most important?

Remote/hybrid working emerged as the top priority for data engineering professionals, with 64% expressing its utmost importance among benefits.

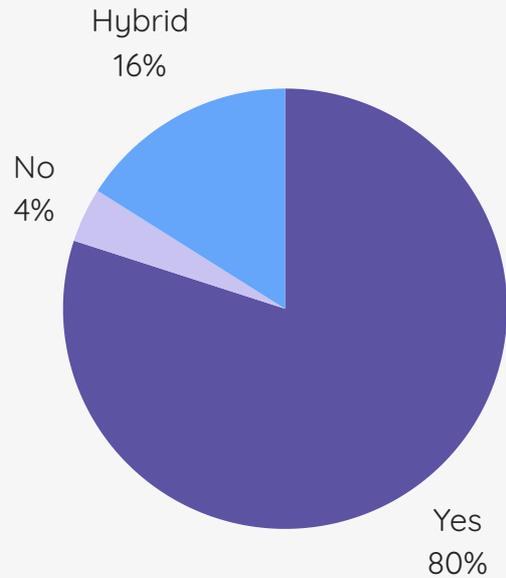


Data Engineering Hybrid Working

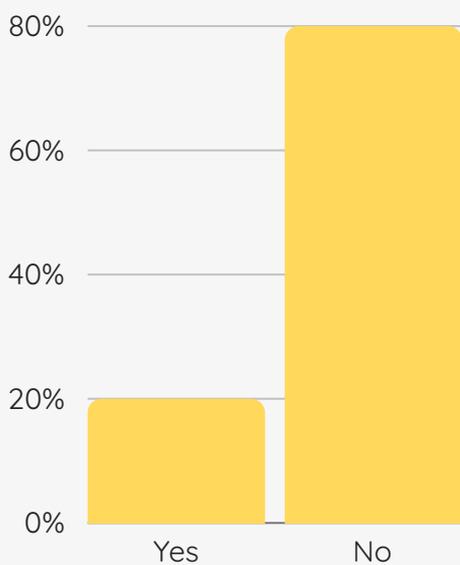
Are Data Engineering professionals offered flexi-time?



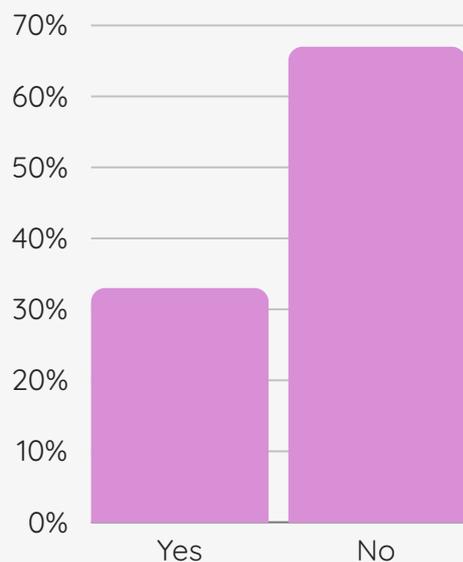
Are Data Engineering professionals offered remote work?



Are they required to be fully on-site?



Is remote working essential for them when considering a job?

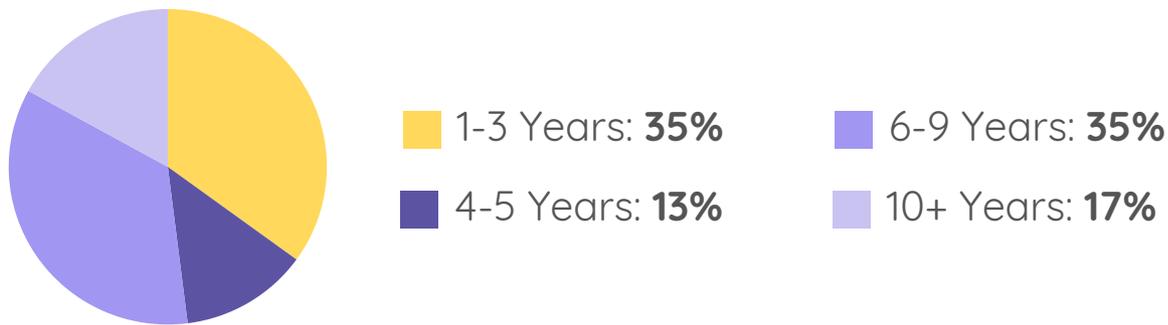


Data Engineering

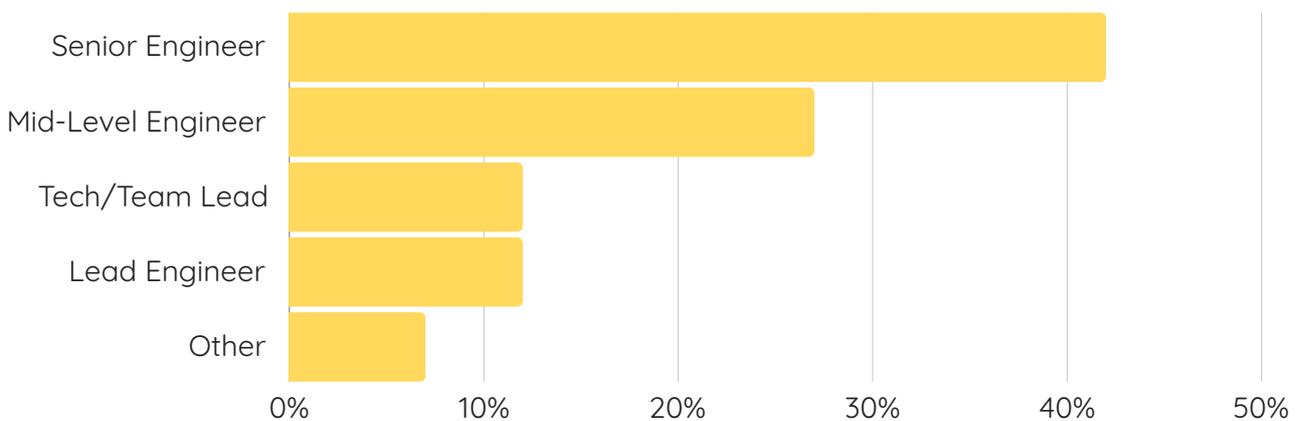
What else did they have to say?

We surveyed Data Engineering experts to gain a deeper understanding of the field and to explore their predictions for the future.

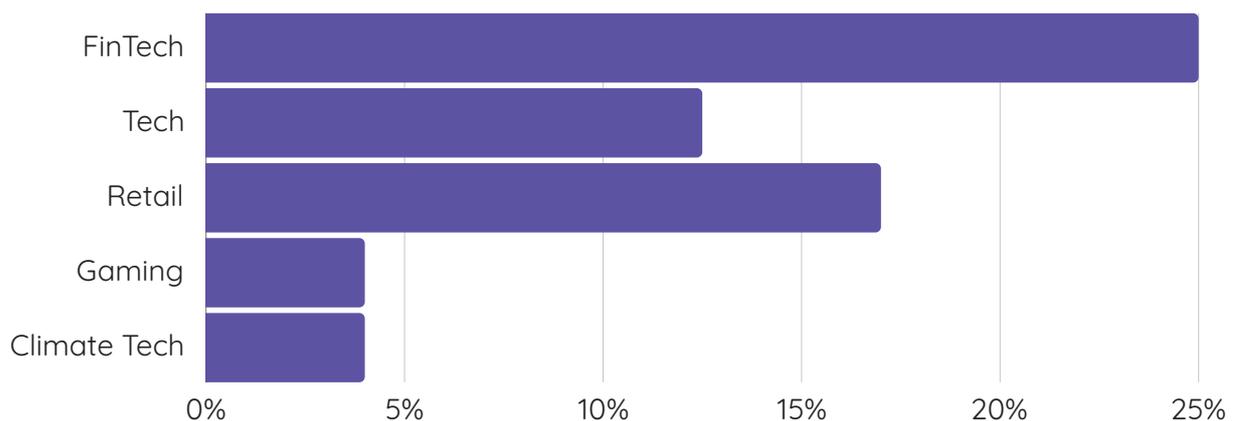
How many years of experience do you have?



What is closest to your current job title?



What is the most interesting industry for you?



Let's stay in touch!



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