2021 Kaggle Machine Learning & Data Science Survey

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About Data

This year, Kaggle set out to conduct an industry-wide survey that presents a truly comprehensive view of the state of data science and machine learning and the best ways for new data scientists to break into the field. Survey data provides an overview of the sector on an aggregate scale

About Data

38 Questions

25488 Response

Data cleaning

01

Checking the nulls

02

determining the questions answered by 50% of the Kaggle community

04

Drop heterosexuals from the data

05

Abbreviation of long names

06

Adding Year column

Tools

Python and Jupyter Notebook

Numpy and Pandas

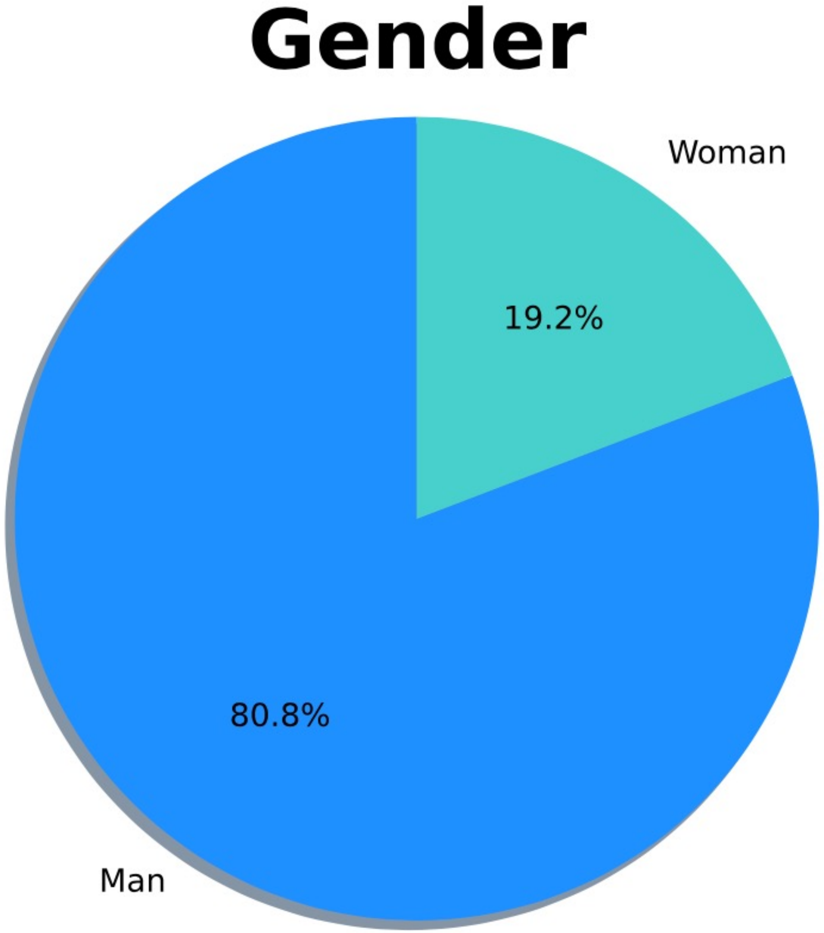
for data manipulation

Matplotlib and Seaborn

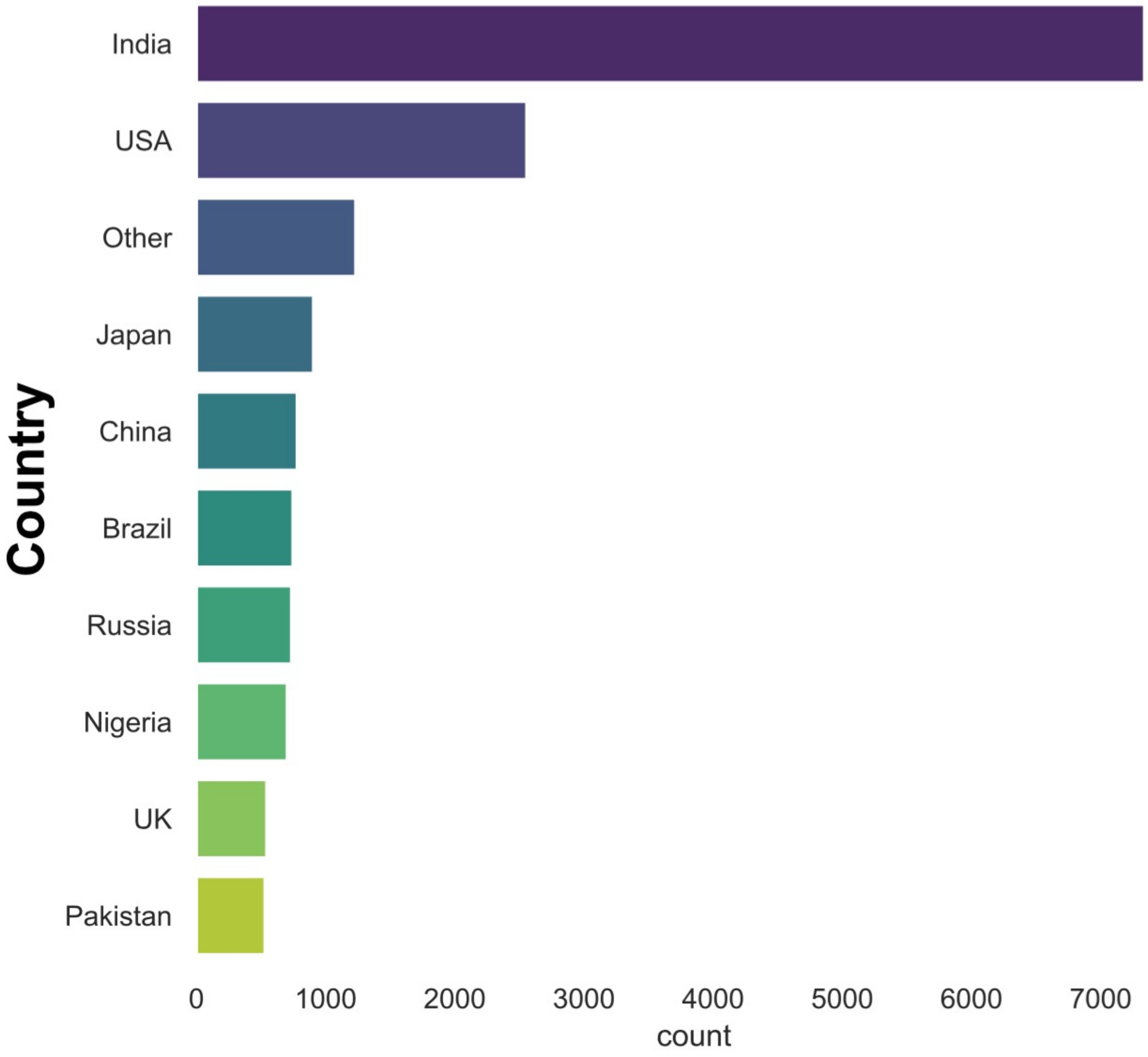
for plotting visuialization

Findings

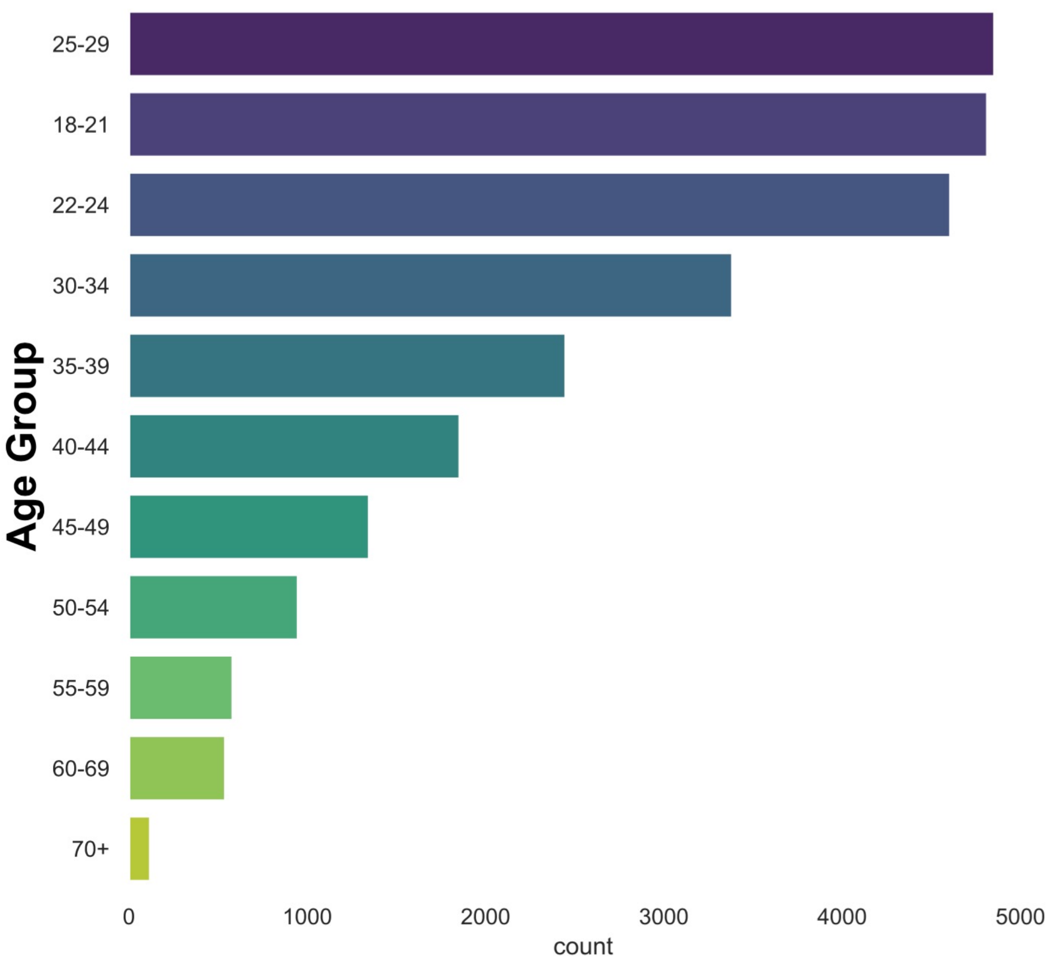
Gender



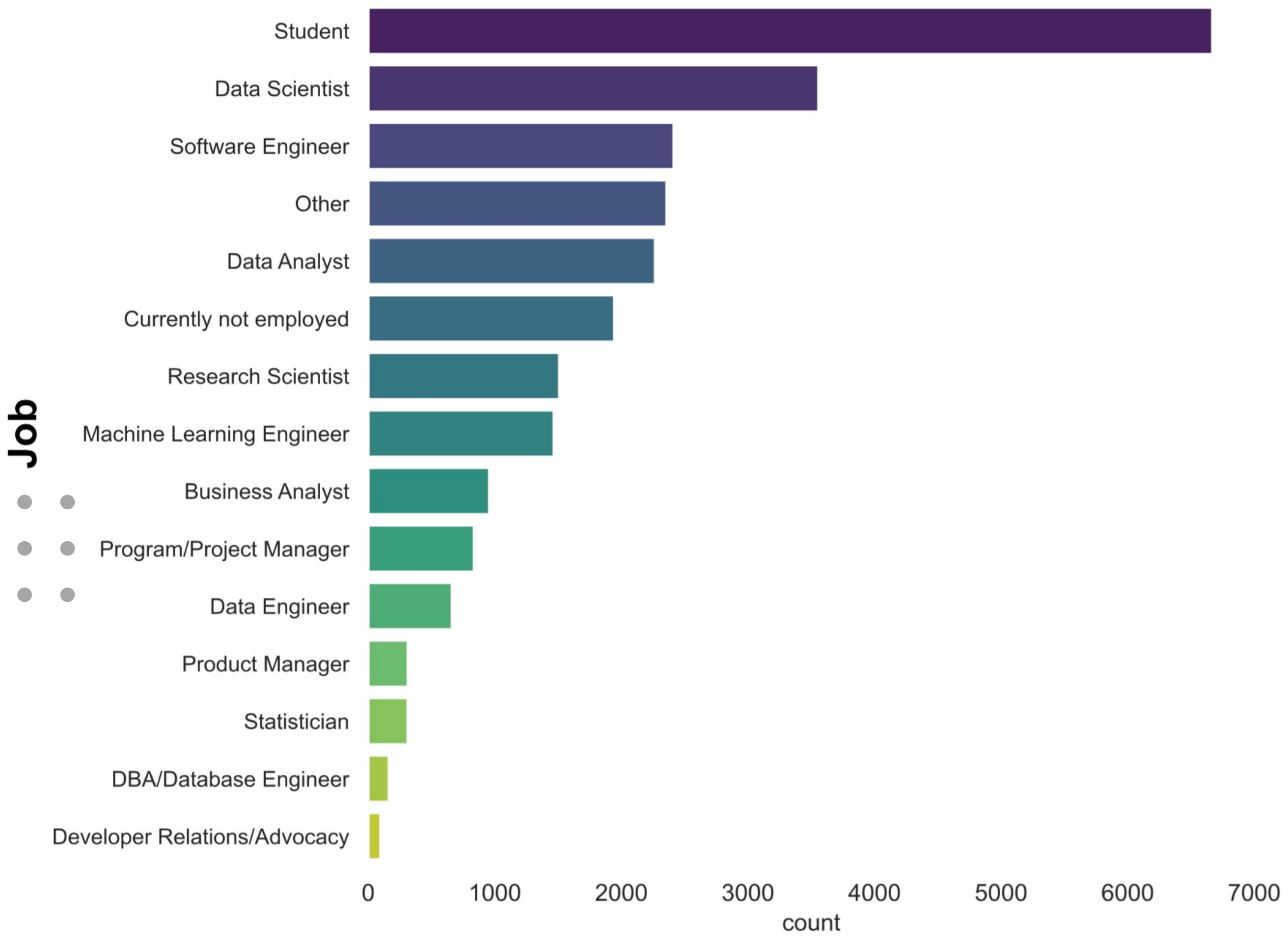
Country


Country
India
USA
Other
Japan
China
Brazil
Russia
Nigeria
UK
Pakistan
0
1000
2000
3000
4000
5000
6000
7000
count

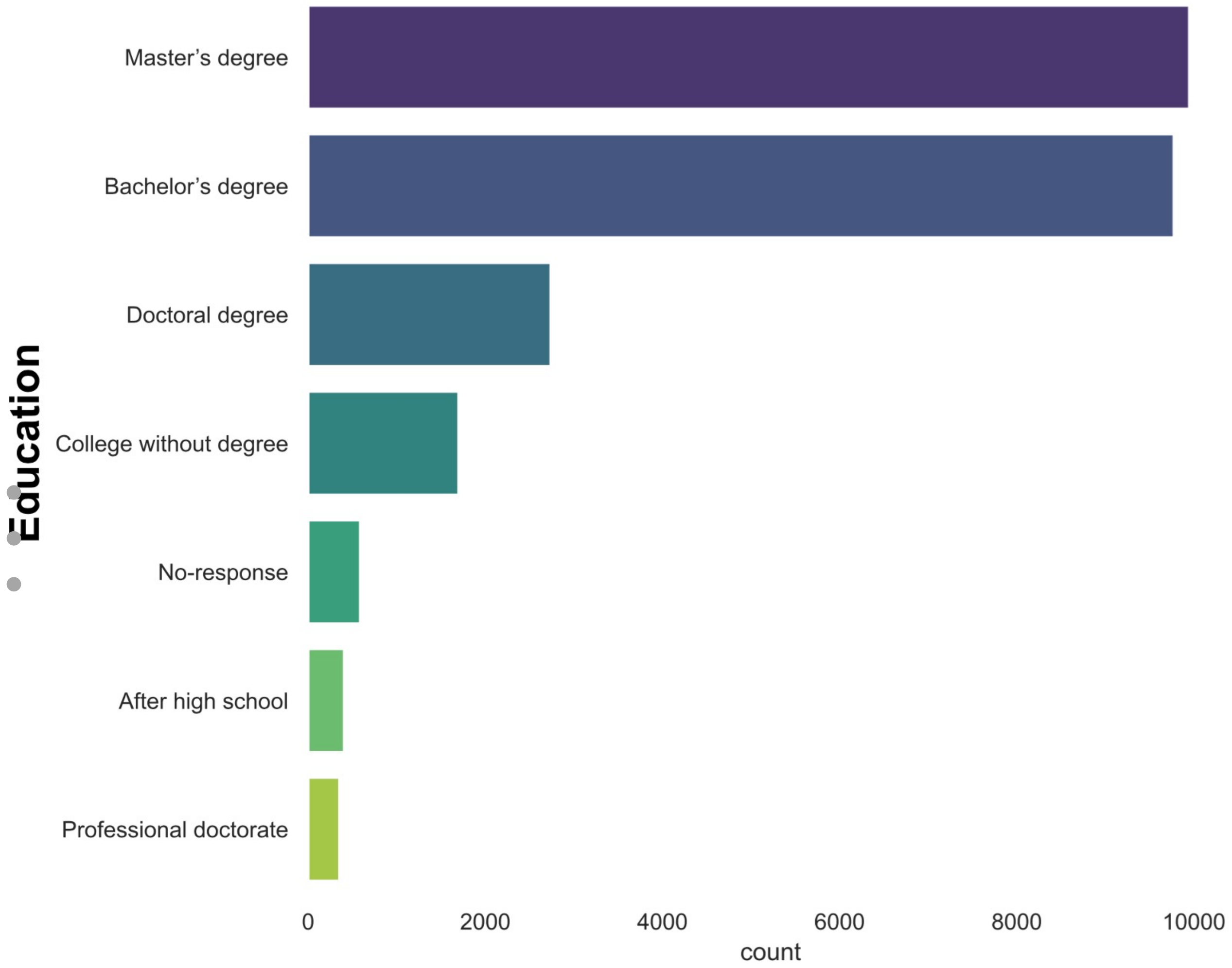
Age Group


25-29
18-21
22-24
30-34
35-39
40-44
45-49
50-54
55-59
60-69
70+
Age Group
0
1000
2000
3000
4000
5000
count

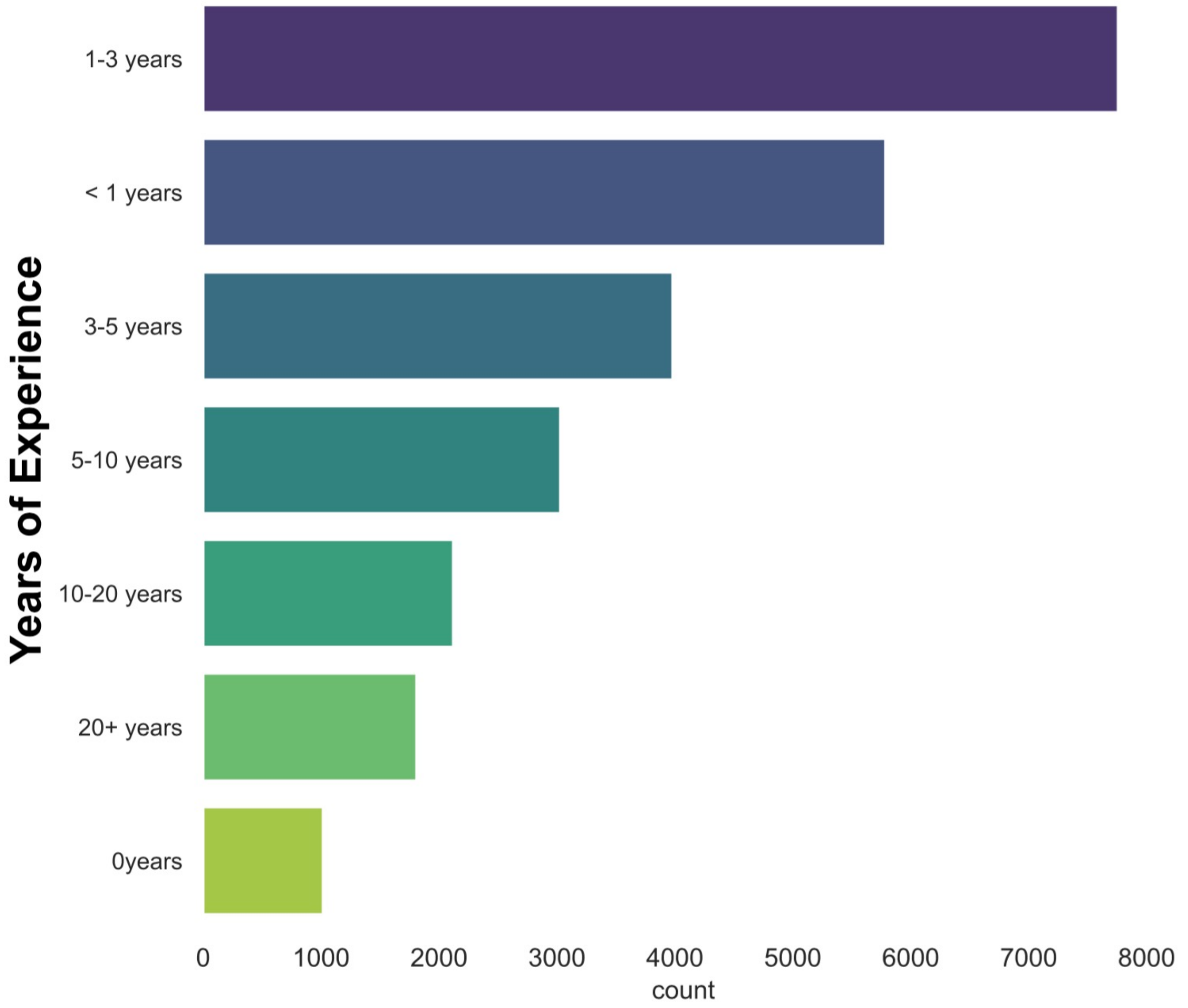
Job


Student
Data Scientist
Software Engineer
Other
Data Analyst
Currently not employed
Research Scientist
Machine Learning Engineer
Business Analyst
Program/Project Manager
Data Engineer
Product Manager
Statistician
DBA/Database Engineer
Developer Relations/Advocacy
Job
0
1000
2000
3000
4000
5000
6000
7000
count

Education


Education
Master's degree
Bachelor's degree
Doctoral degree
College without degree
No-response
After high school
Professional doctorate
0
2000
4000
6000
8000
10000
count

Experience



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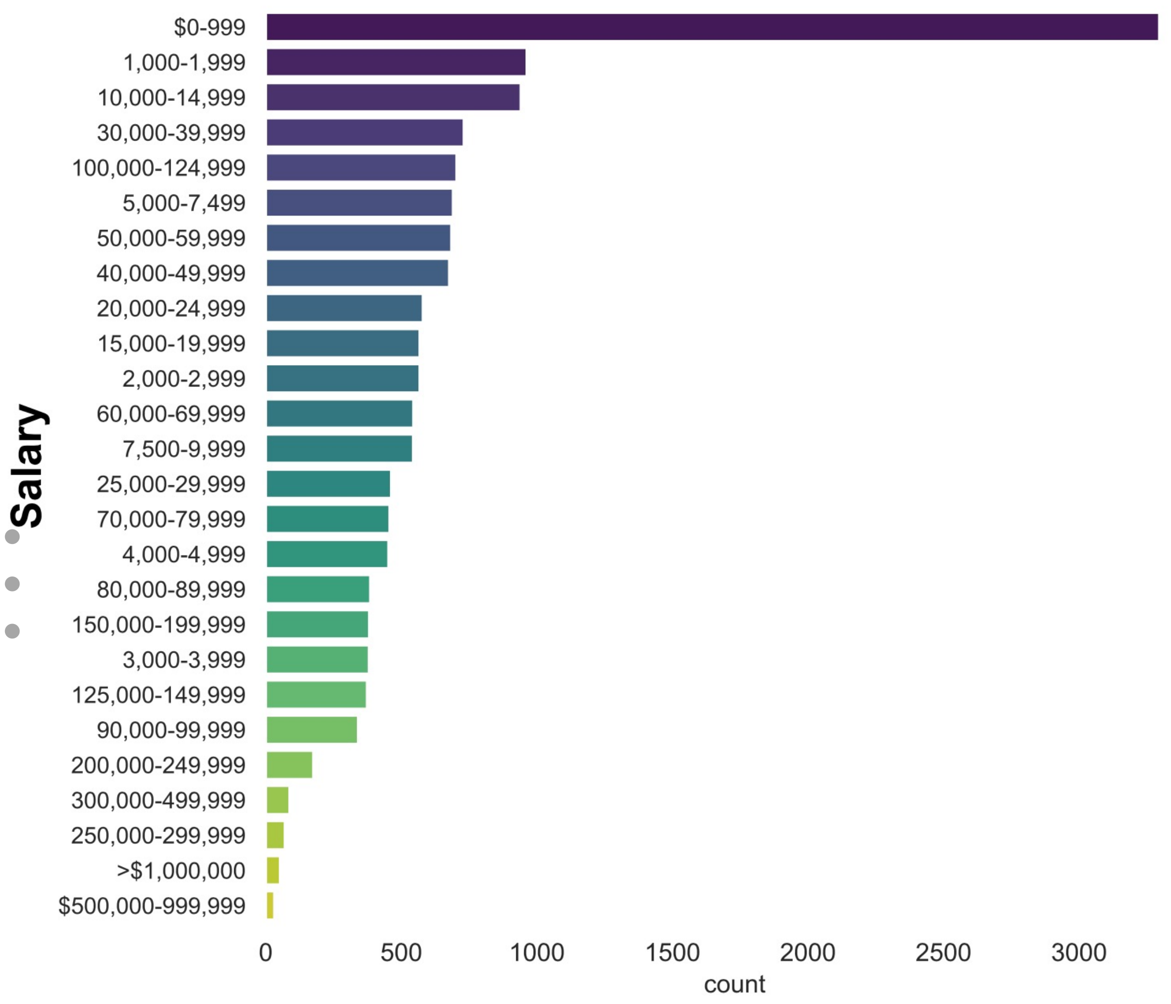
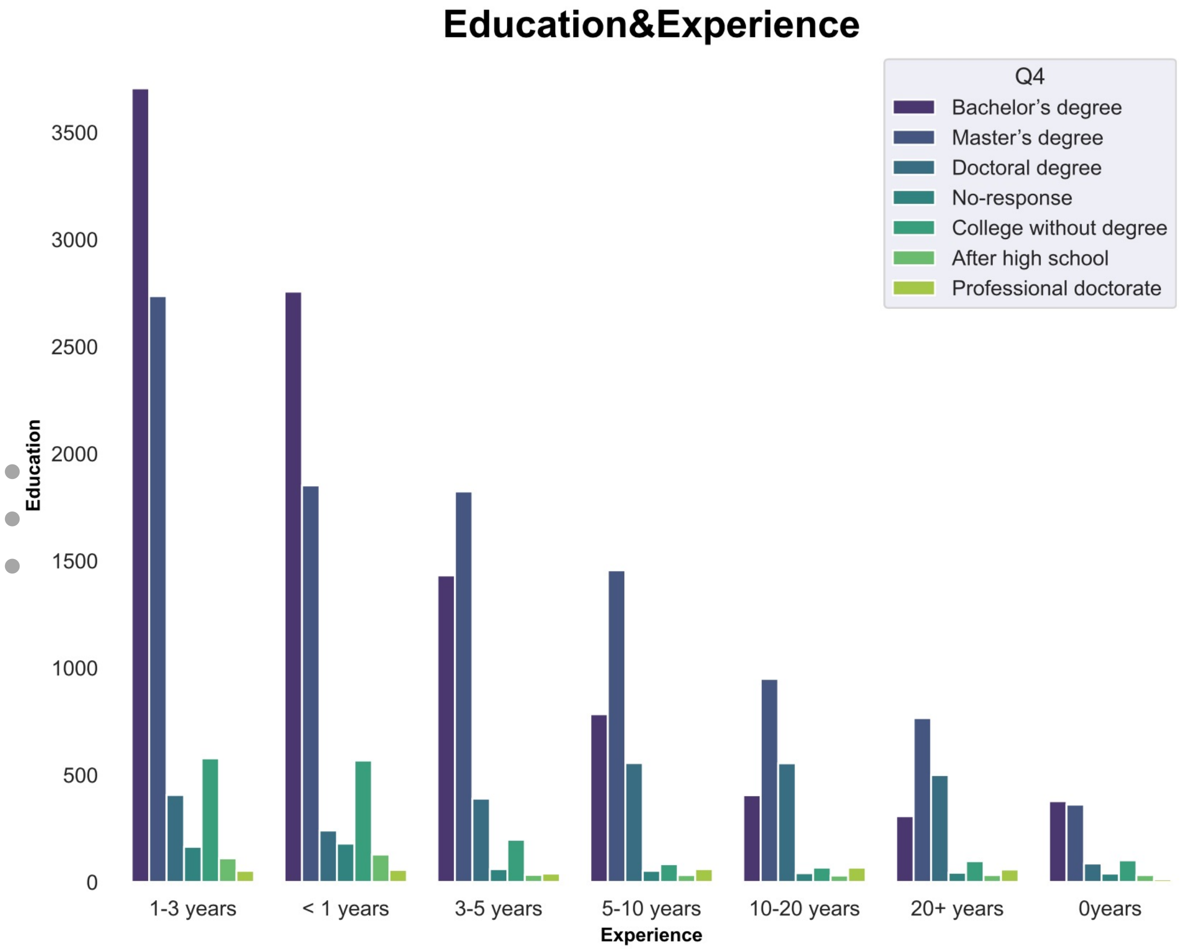
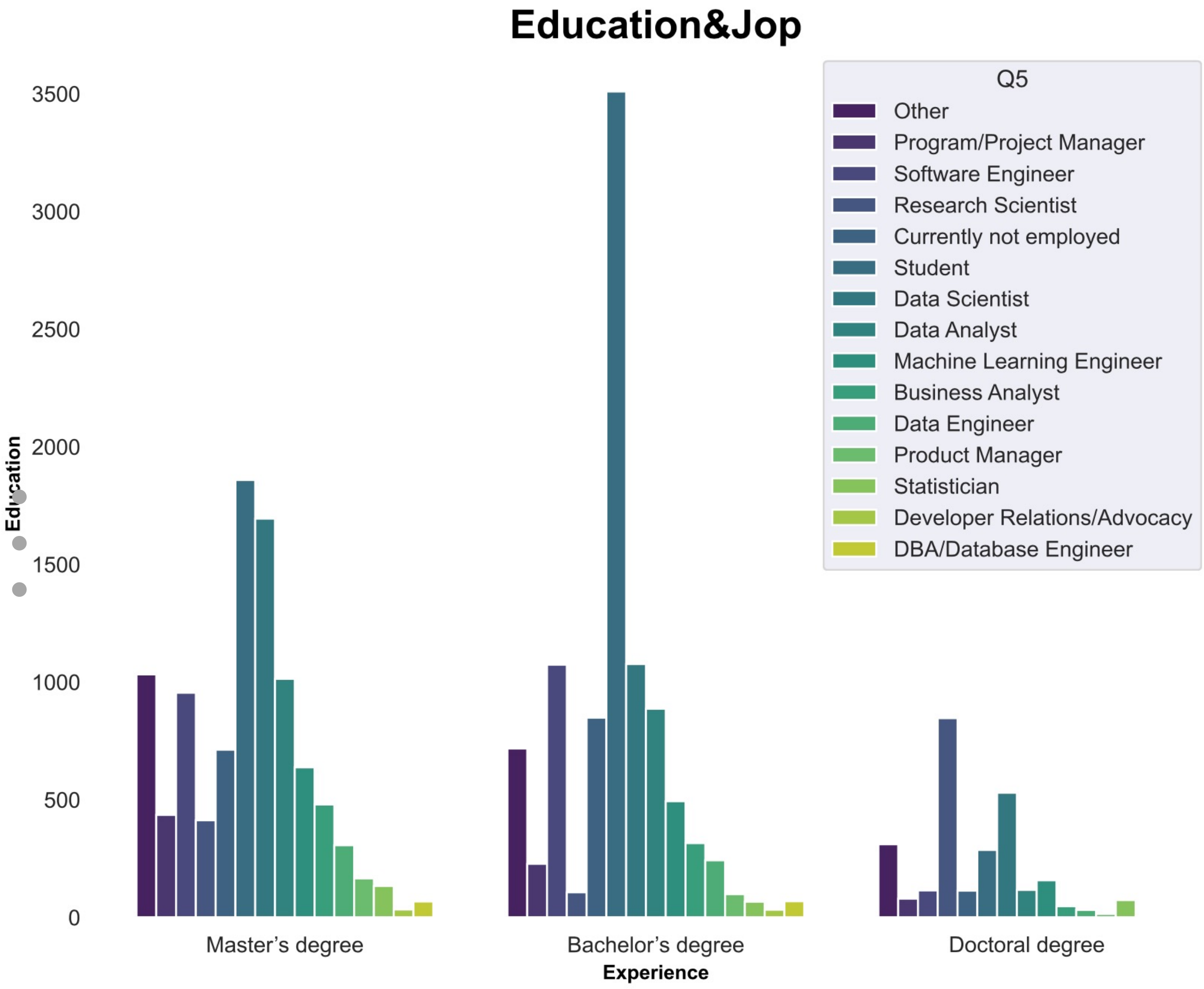
Salary


$0-999
1,000-1,999
10,000-14,999
30,000-39,999
100,000-124,999
5,000-7,499
50,000-59,999
40,000-49,999
20,000-24,999
15,000-19,999
2,000-2,999
60,000-69,999
7,500-9,999
25,000-29,999
70,000-79,999
4,000-4,999
80,000-89,999
150,000-199,999
3,000-3,999
125,000-149,999
90,000-99,999
200,000-249,999
300,000-499,999
250,000-299,999
>$1,000,000
$500,000-999,999
Salary
0
500
1000
1500
2000
2500
3000
count

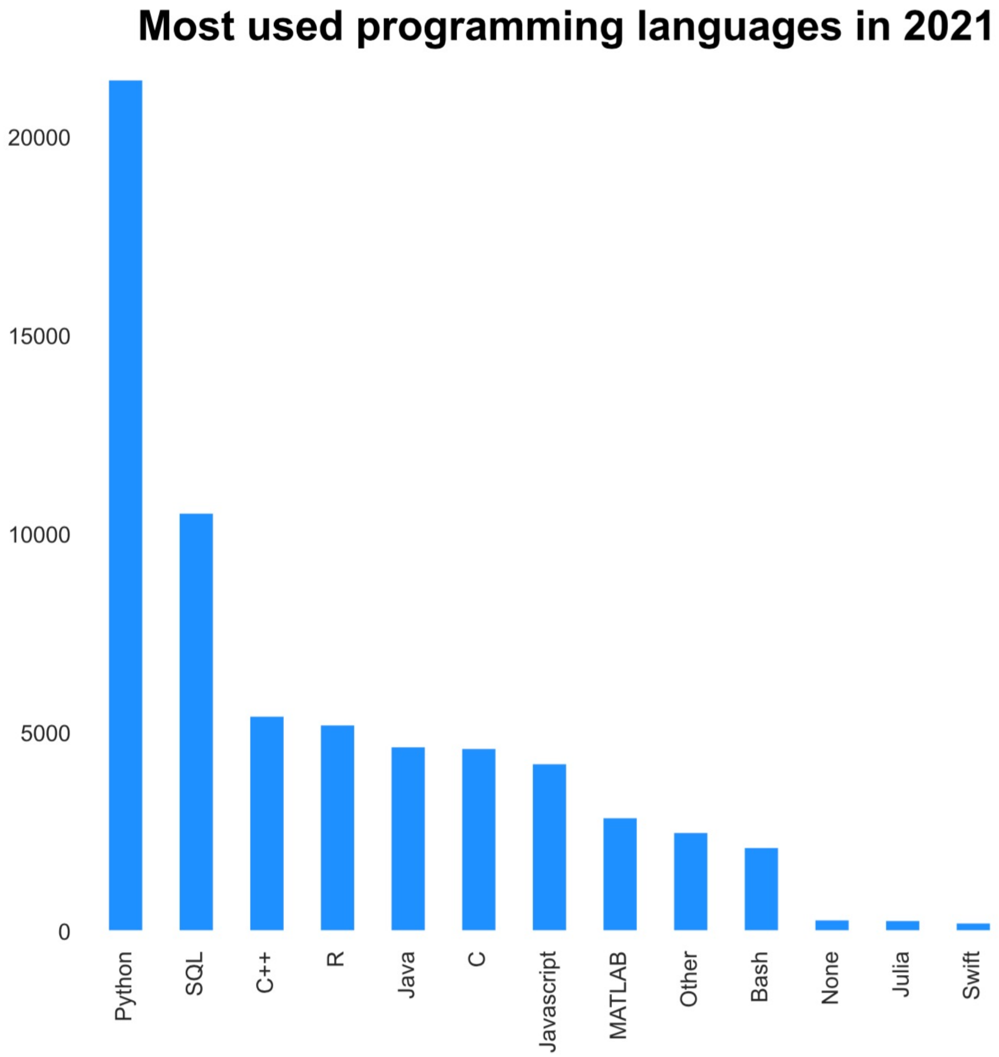
Education&Experience



Education&Jop



Most used programming languages for 2021



2019-2021

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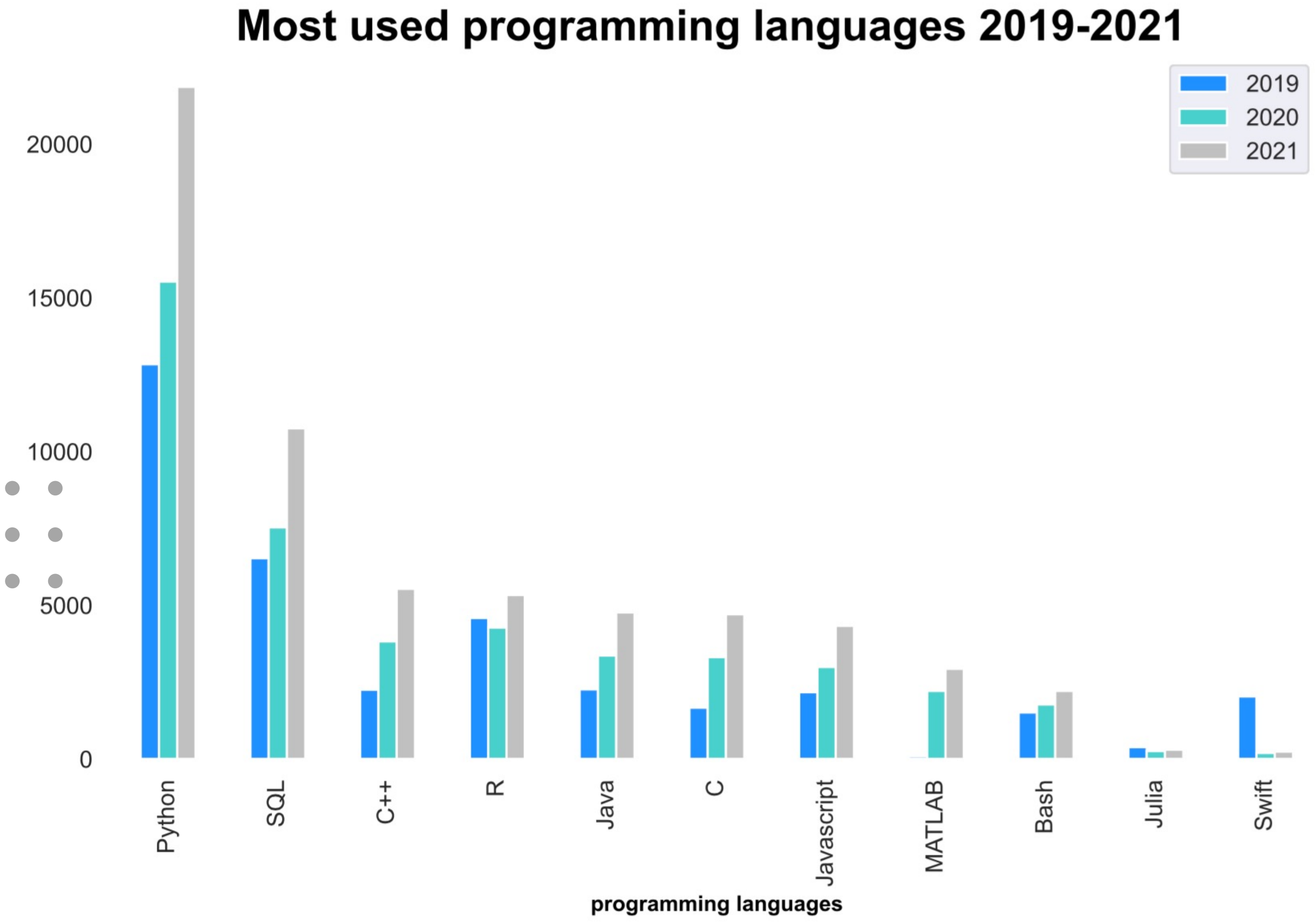
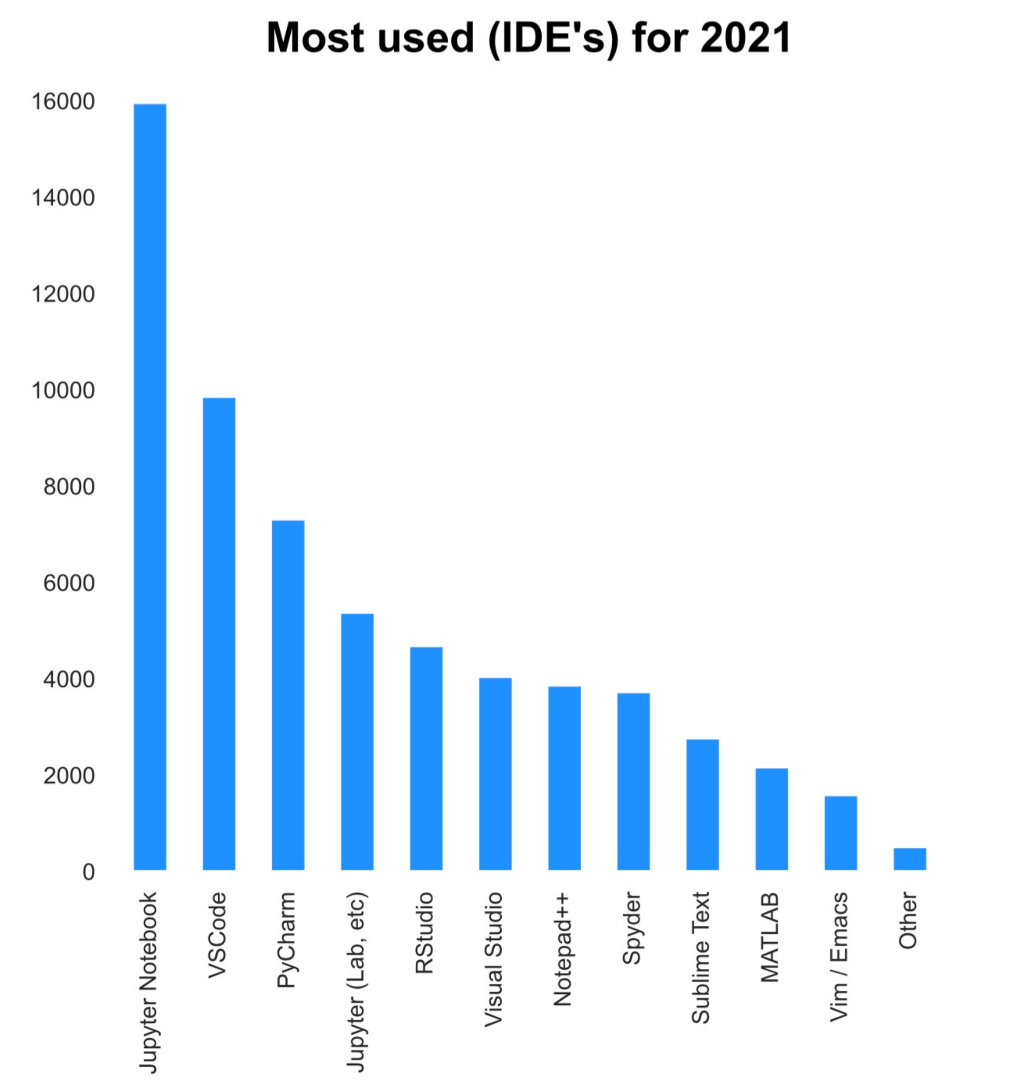
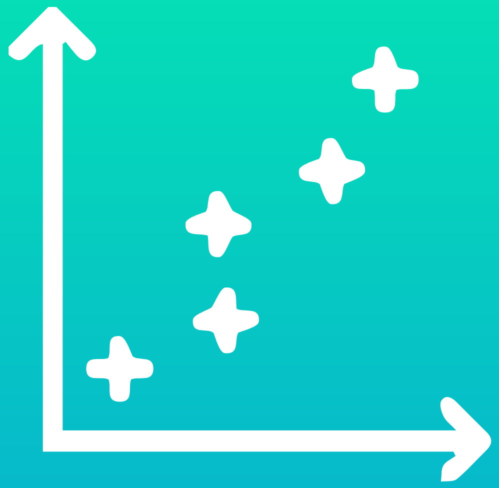
Most used programming languages 2019-2021



Most used (IDE's) for 2021





Correlation between experience and salary

0.193

Thanks!