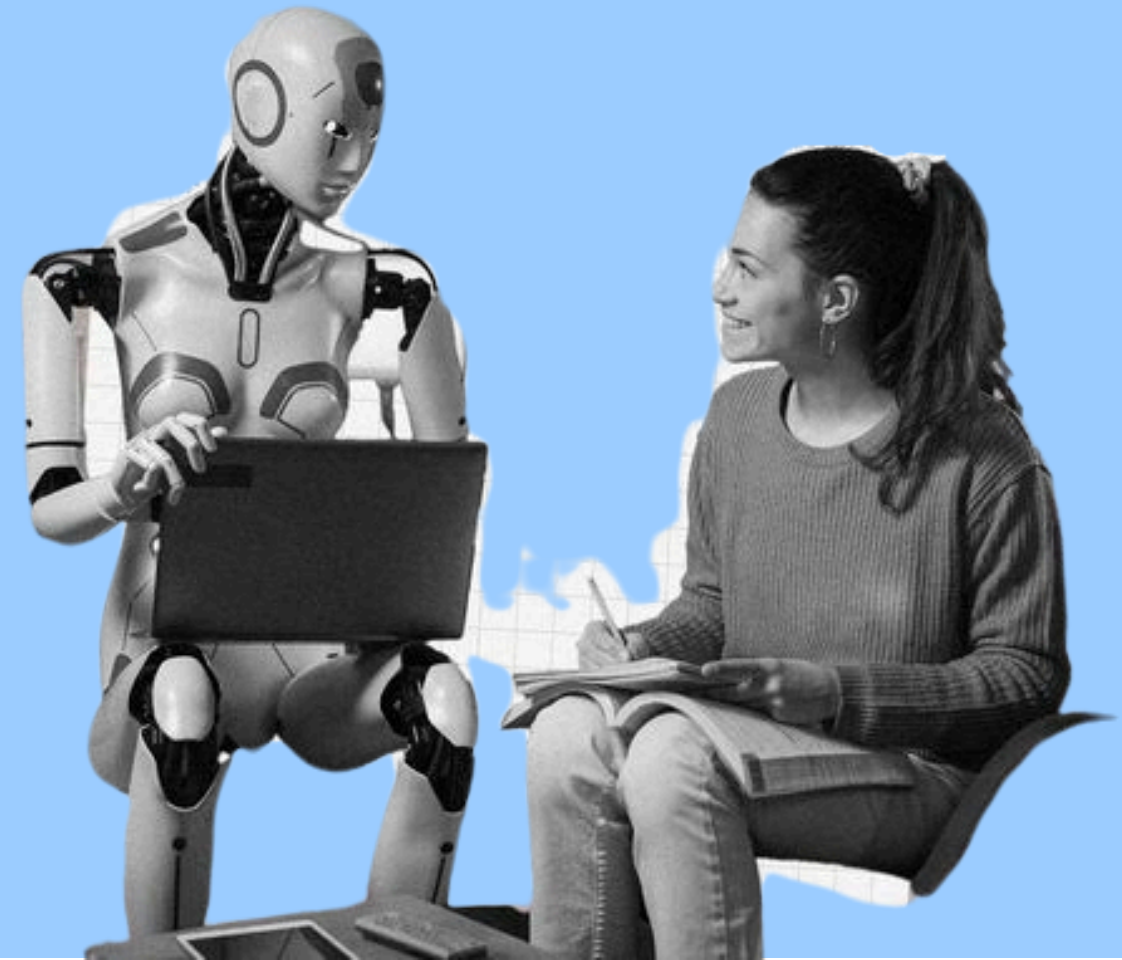
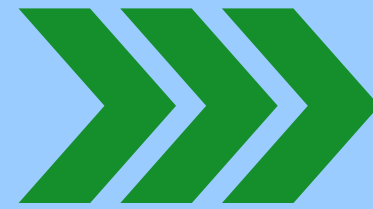


THE DATA WORLD

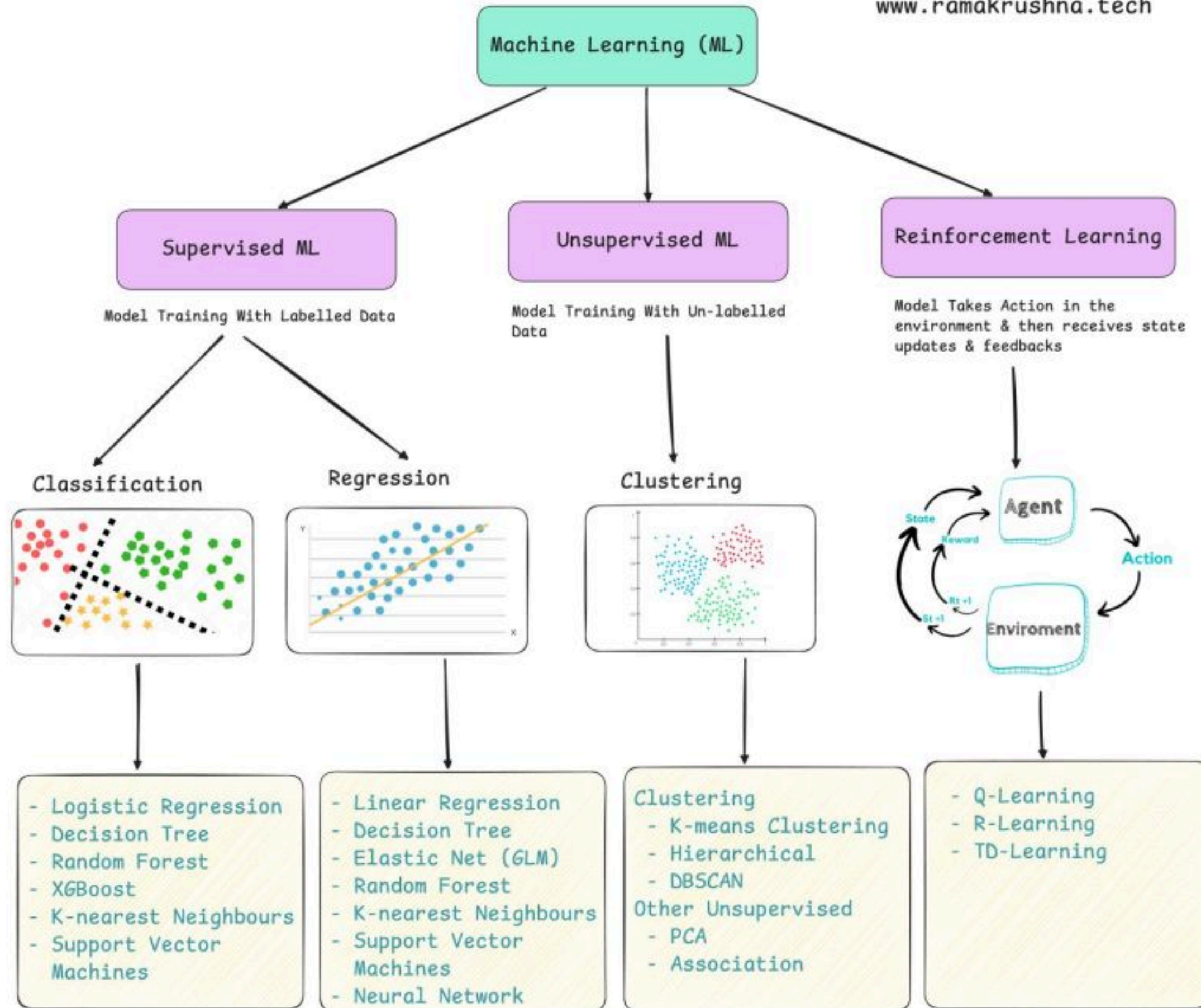
A GUIDE TO START YOUR CAREER JOURNEY



IT IS THE FUTURE OF DATA..



"The use of data dates back millions of years, shaping the progress of ancient civilizations from tracking the stars to building the pyramids. Today, with the rise of AI and advanced technologies, data is more powerful than ever. The future belongs to those who can understand, analyze, and harness it
THE DATA ARCHITECTS OF TOMORROW!"



**IT IS NOT ABOUT
AUTOMATION, IT IS ABOUT
THE INDIVIDUALS WHO
AUTOMATE IT!**

From 09/01/2021 to 10/04/2021, Kaggle conducted its 5th annual industry-wide survey in providing a truly comprehensive view of the state of data science and machine learning and related fields.

CONTENTS

01 EXPLORING
DEMOGRAPHICS, TRENDS

02 WORKFLOW

03 MACHINE LEARNING

04 SUMMARY AND
CONCLUSION

KEY FIGURES

25,974

NUMBER OF
RESPONDENTS

43

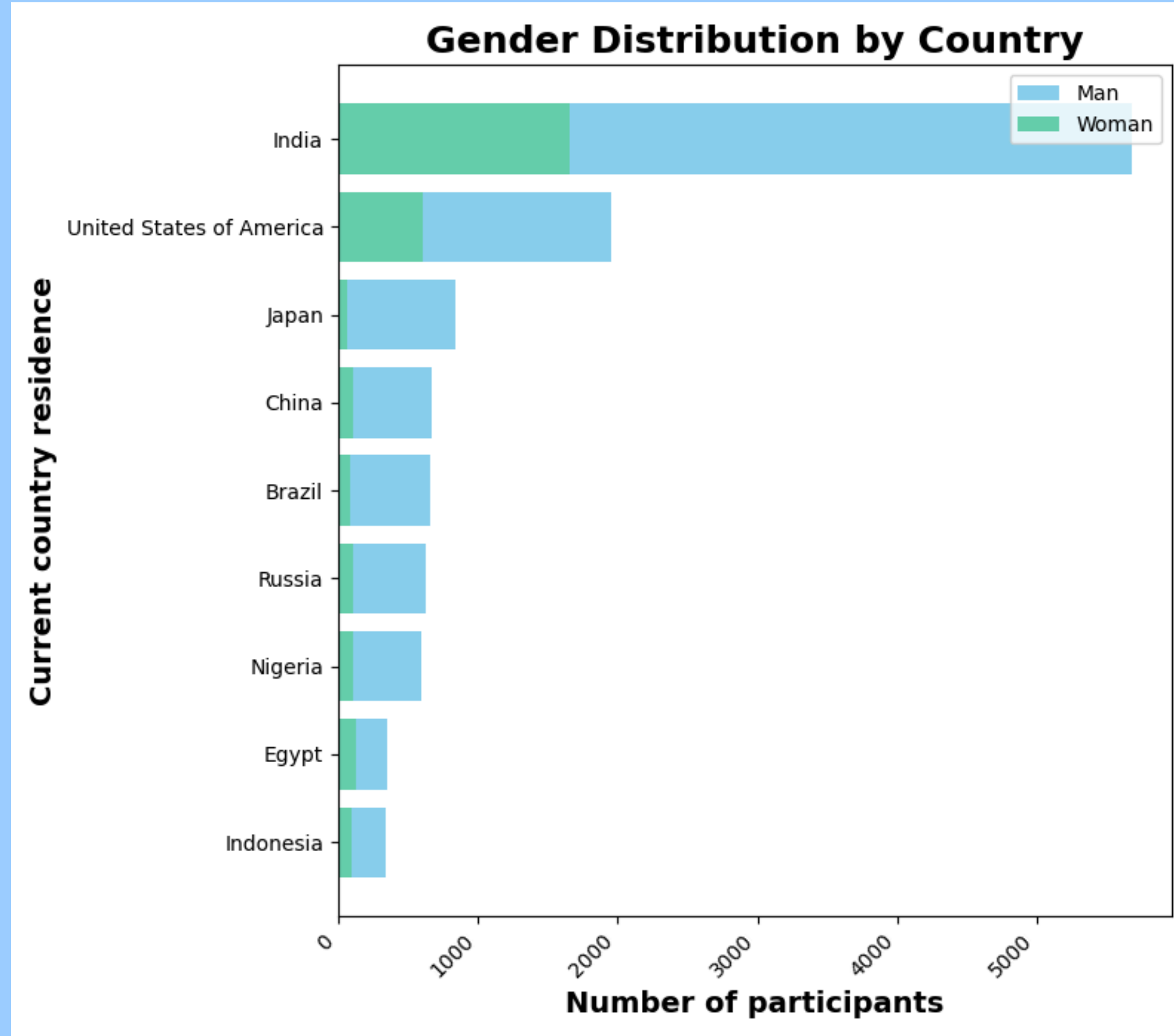
NUMBER OF
QUESTIONS
IN THE
SURVEY

1/3

OF PARTICIPANT ARE
DATA SCIENTIST AND
MACHINE LEARNING
ENGINEERS

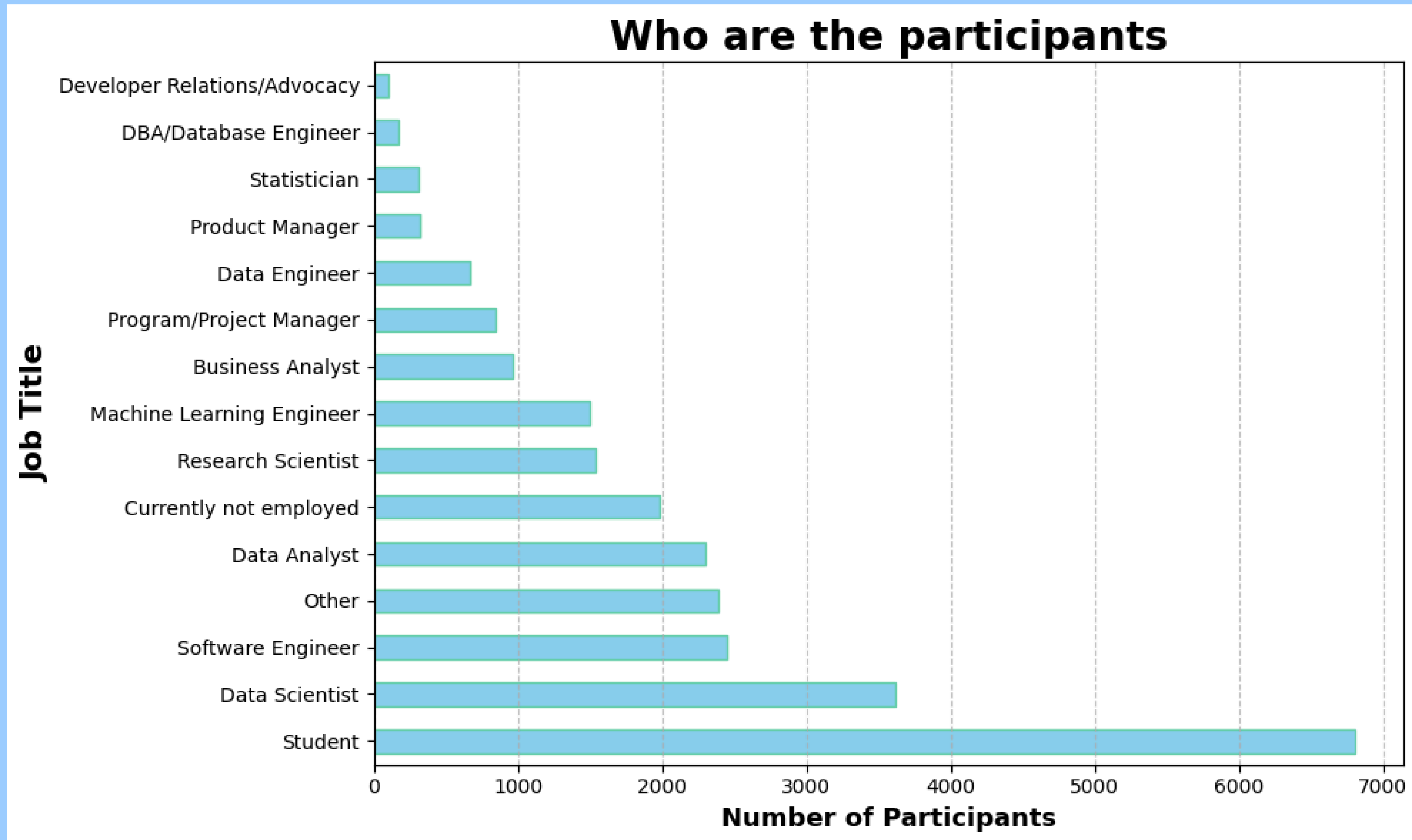
1.1 COUNTRY/ GENDER DISTRIBUTIONS

01.



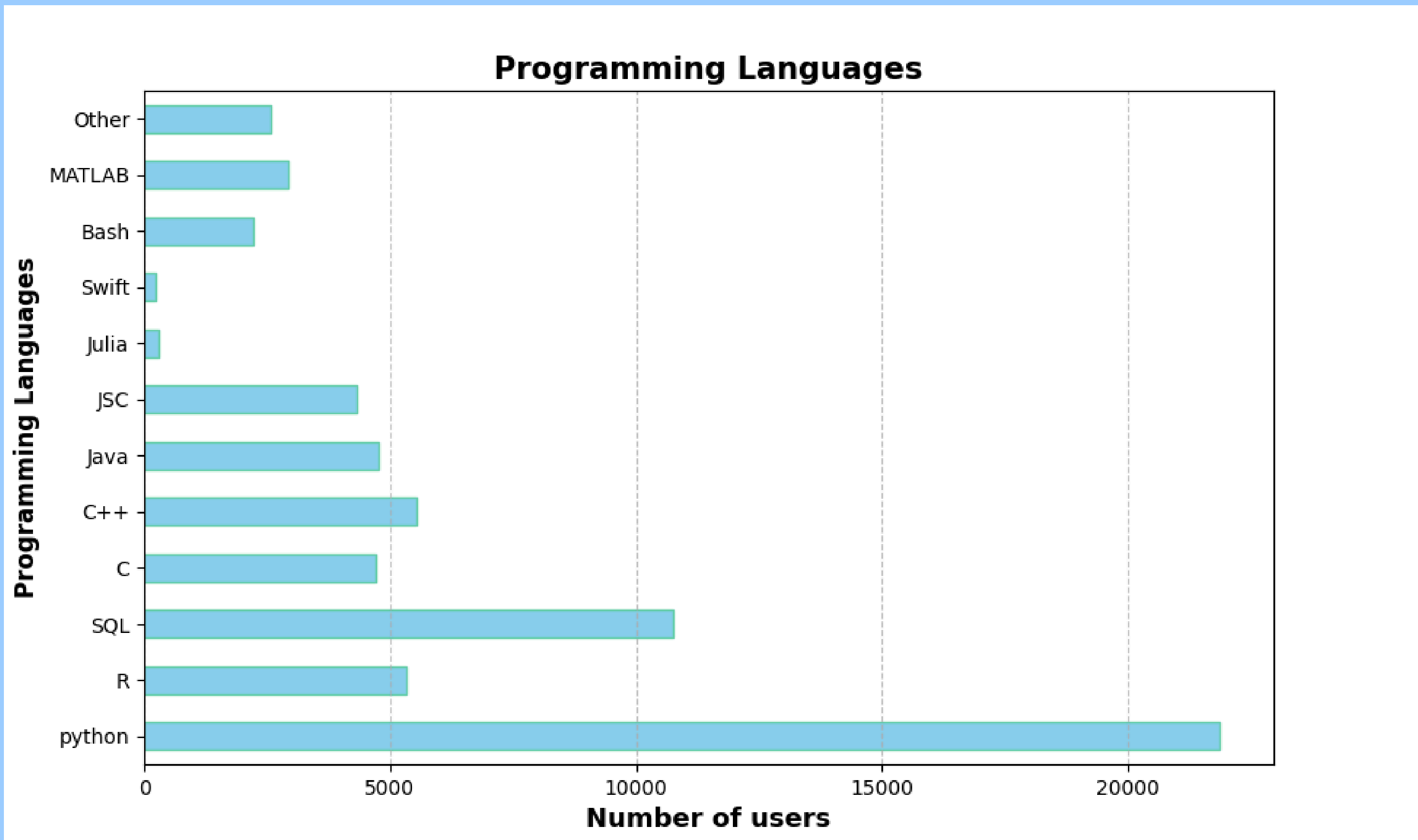
1.2 WHO ARE OUR PARTICIPANTS?

01.



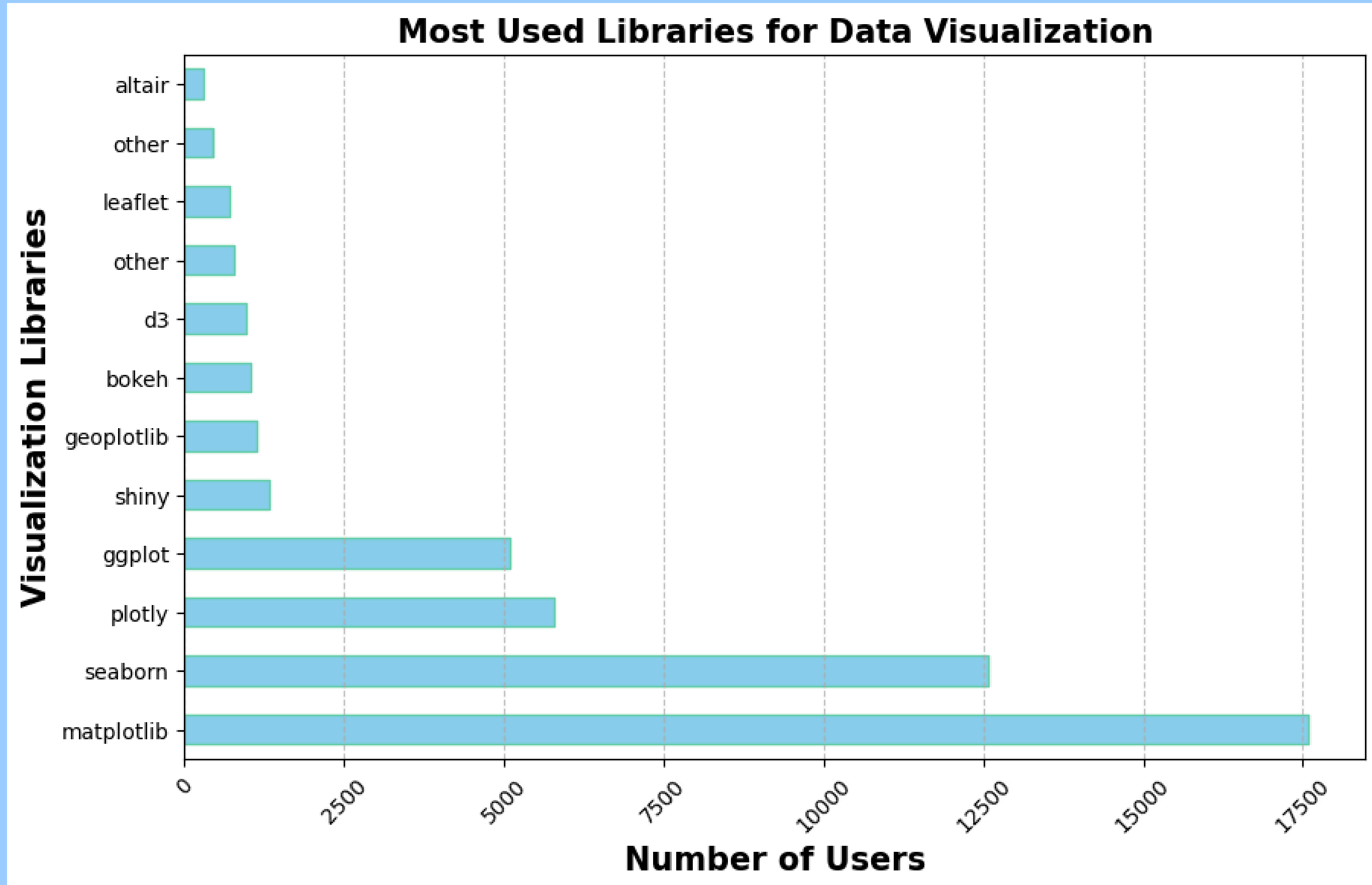
1.3 WHAT ARE THE PROGRAMMING LANGUAGES USED ON REGULAR BASIS?

01.



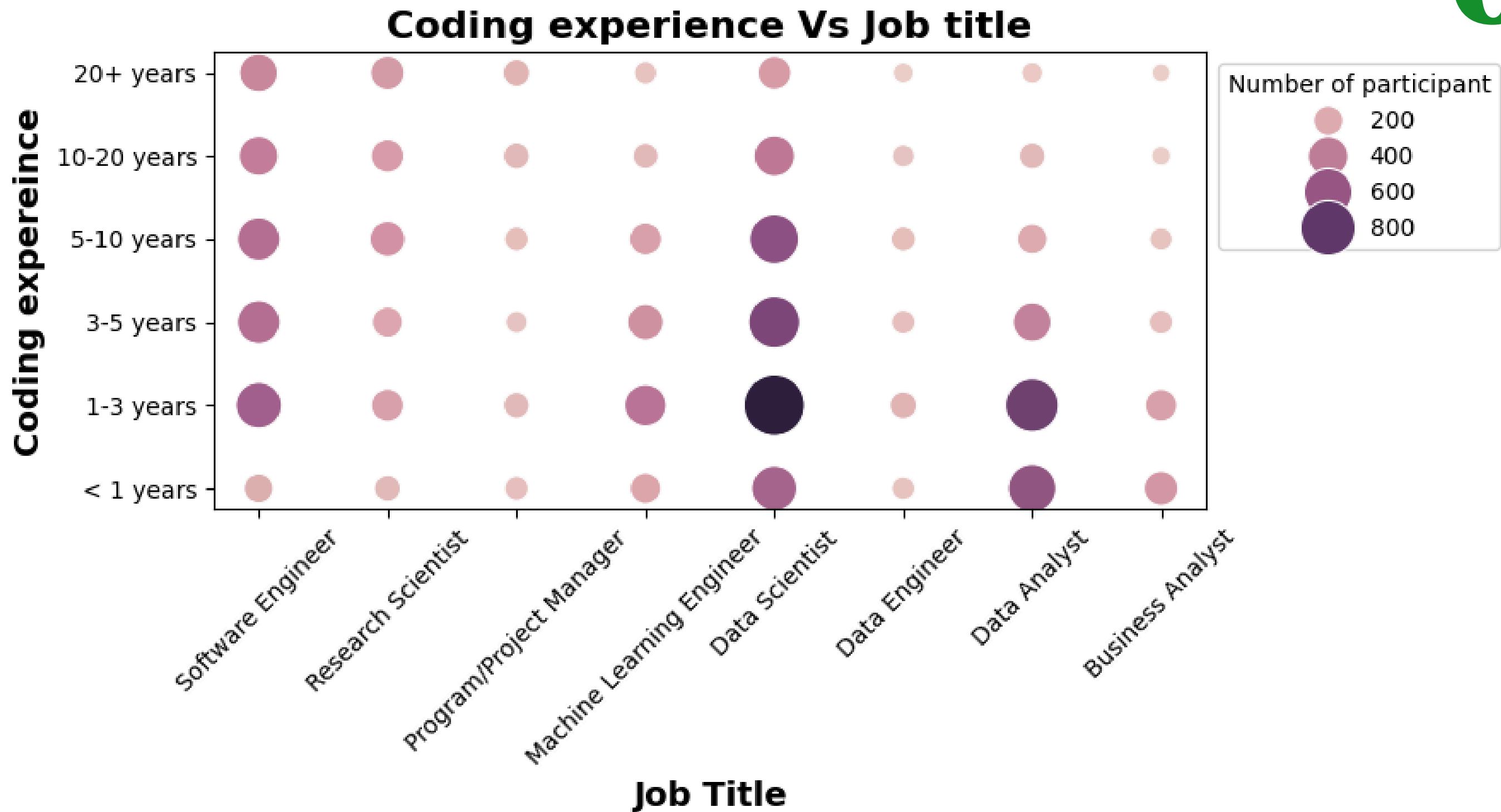
1.4 🌐 WHAT ARE THE MOST USED LIBRARIES FOR VISUALIZATION 🌐

01.



2.1 HOW MANY YEARS OF EXPERIENCE ARE REQUIRED FOR EACH JOB TITLE🎯

02.

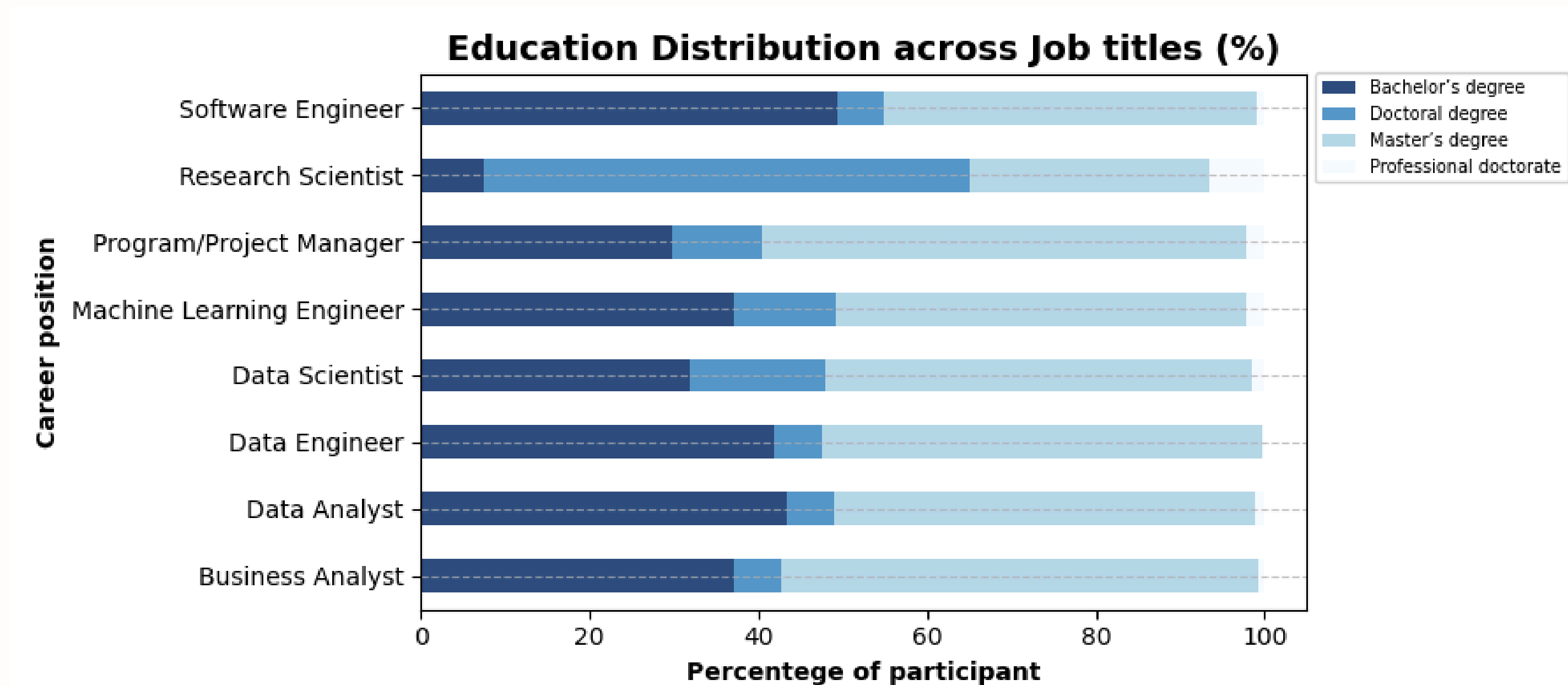


The majority of respondents have 1-3 year of experience,💡.

- Data science participant's experience peaks at 3-10 years of coding experience
- Most of the Software Engineer participants are professionals in coding..

2.2 WHAT ARE THE EDUCATIONAL BACKGROUNDS OF PARTICIPANTS 🎓🎓

02.



- Seems like becoming a machine learning engineer or a data scientist does not necessarily require a Master degree!
- Data engineer, Business analyst, and project manager jobs have large number of participants with masters degree, more than the bachelor's..
- If you want to become a research scientist, large opportunities are for ones who earned their doctorate!

2.3 YEARLY INCOME X JOB TITLES, WHO EARNED MORE 💰?

02.

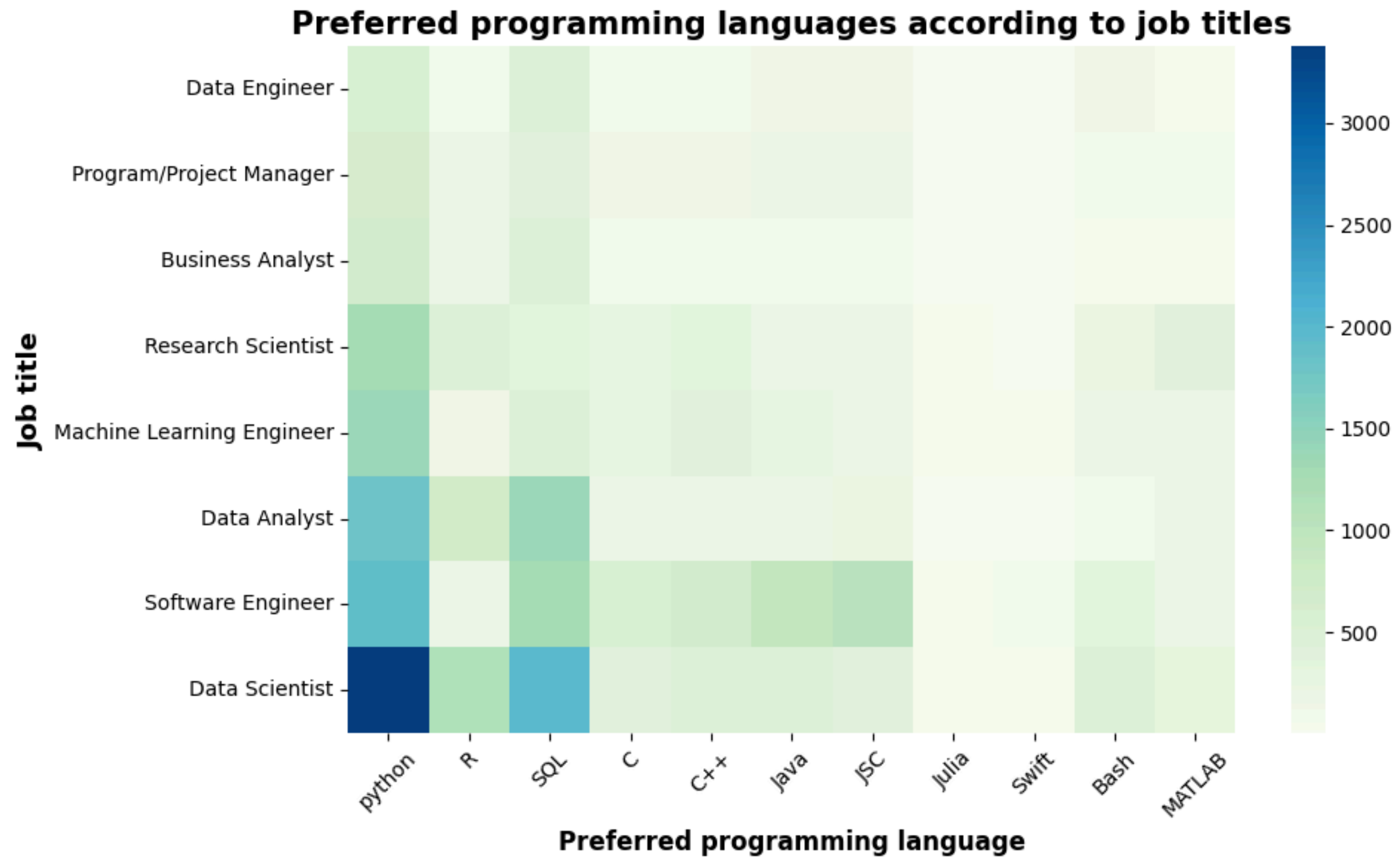


Machine Learning Engineers tend to have the highest percentage of employees in lower salary ranges! This suggests that entry-level roles in these fields may be more common. 🧳📊

- Product Managers show a relatively higher percentage in the mid salary ranges, indicating that this role may have fewer entry-level positions and a higher earning potential over time. Similarly, Data Scientists and Software Engineers exhibit a more balanced distribution across salary ranges.

2.4 HOW DO PROGRAMMING LANGUAGES PREFERENCES VARY BASED ON JOB TITLES🤔?

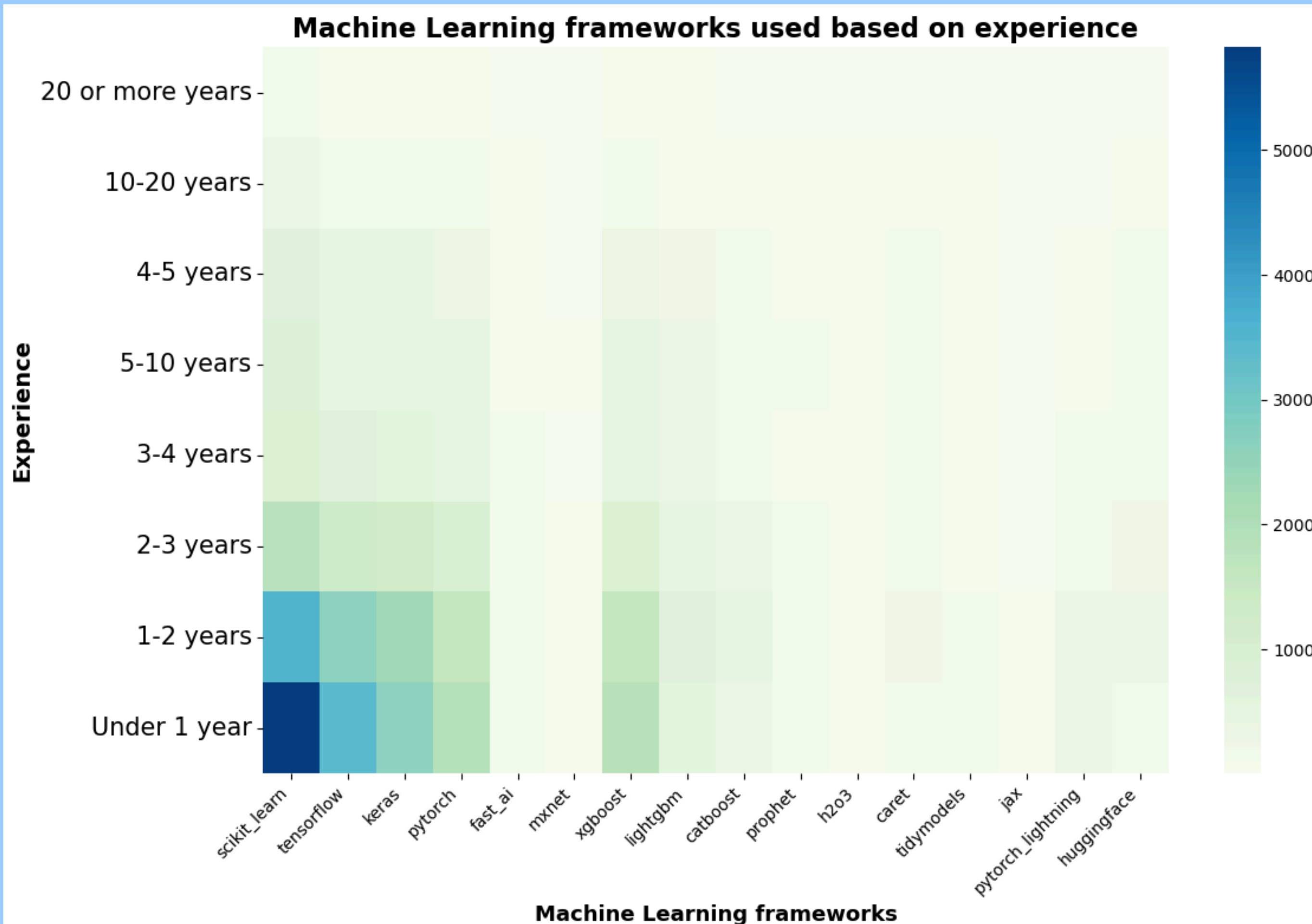
02.



- 1. Python users are mostly (Students, Data Scientists, and Software Engineers).
- 2. SQL is mostly used by (Students, Data Scientists, and Data Analysts).
- 3. C++ is also used mostly by Students.

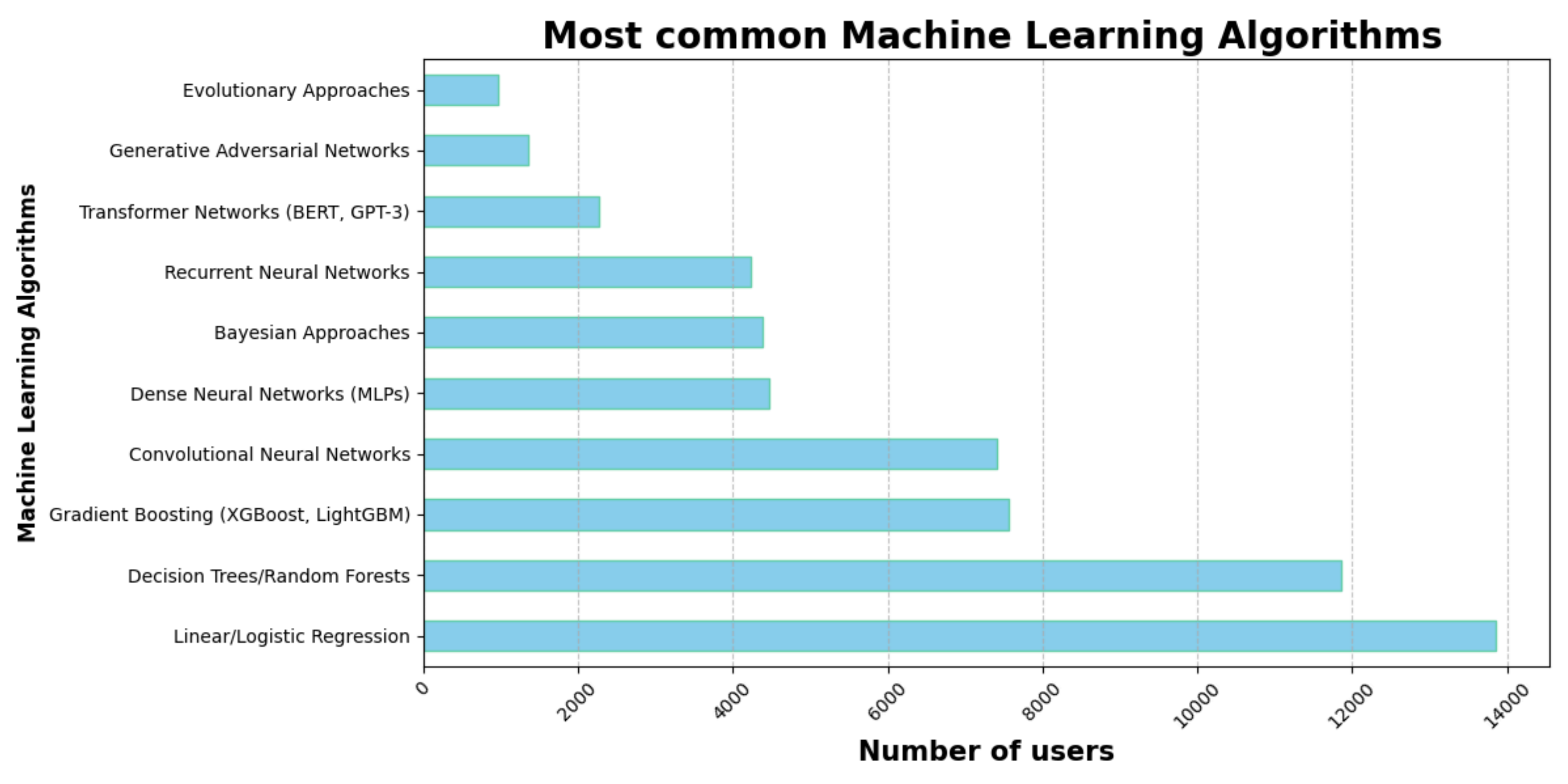
3.1 MACHINE LEARNING FRAMEWORKS

03.



3.2 MACHINE LEARNING ALGORITHMS

03



CONCLUSION: REMARKS

- **Our analysis provide an overview of the state of data science, machine learning feild in the year 2021.**
- **There is a huge gender gap with ratio of 20:80, where most of the participant are from US and india.**
- **Python users are mostly (Students, Data Scientists, and Software Engineers).**
- **SQL is mostly used by (Students, Data Scientists, and Data Analysts)**
- **Linear/ Regression is the mother of the Machine learning algorithms.**
- **The majority of respondents have 1-3 year of coding experience. Participants of different background experience vary from profession in coding to beginners.**

FUTURE WORKS

**adding more data from
other surveys or reports to
compare trends over time.**

**people's opinions on
the frameworks and
languages they use**

**analysis on specific job
titles or exploring a
specific subcategory**