

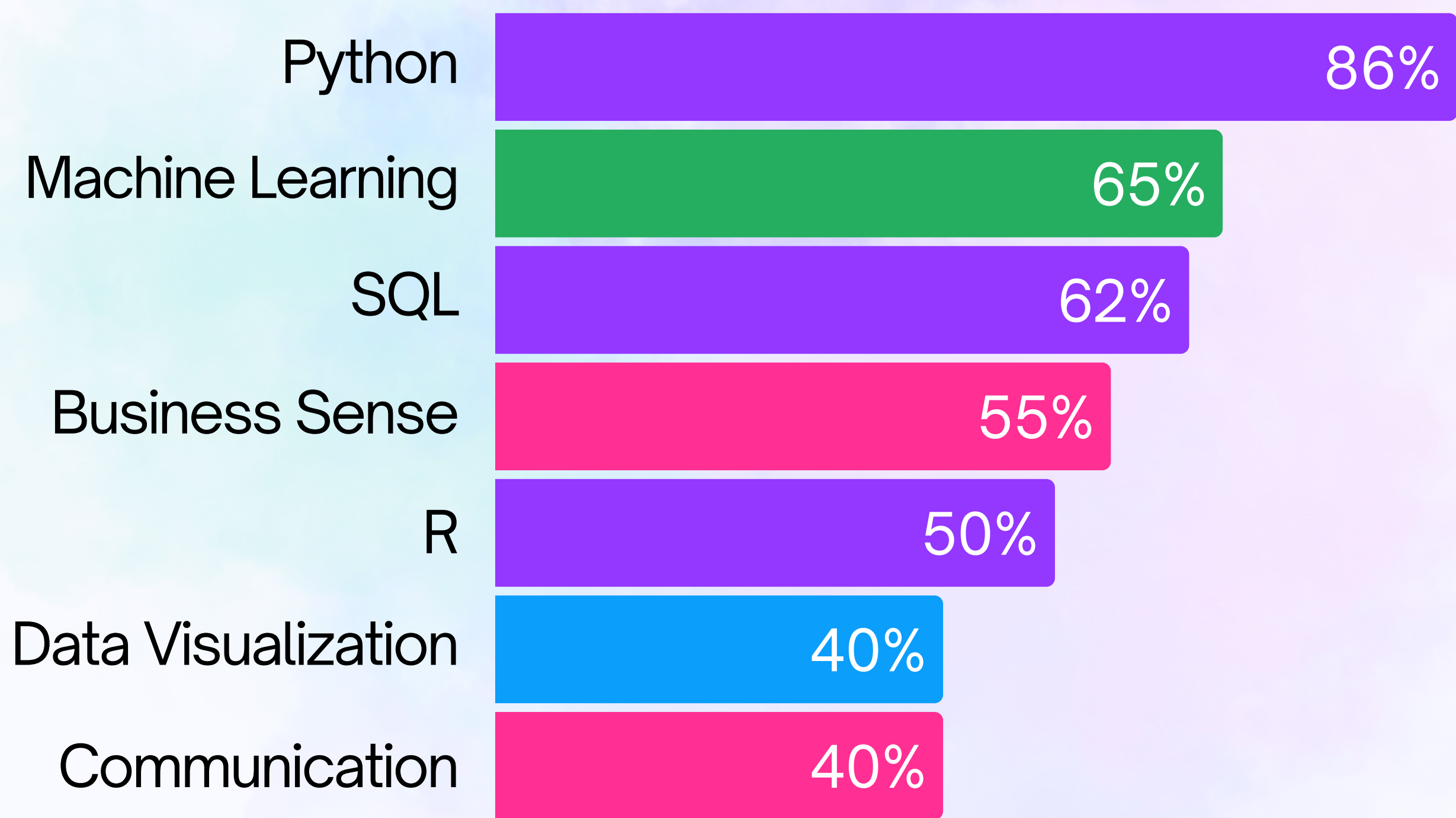
Top skills required for Data Scientists in 2025



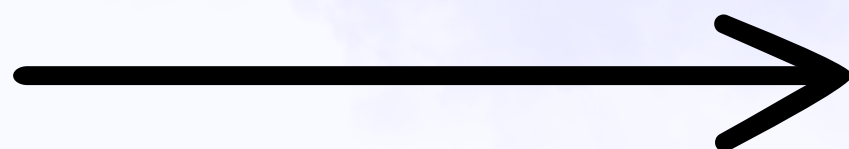
Dawn Choo

I analyzed **100 Data Science**
current job openings to find the
most requested skills in 2025

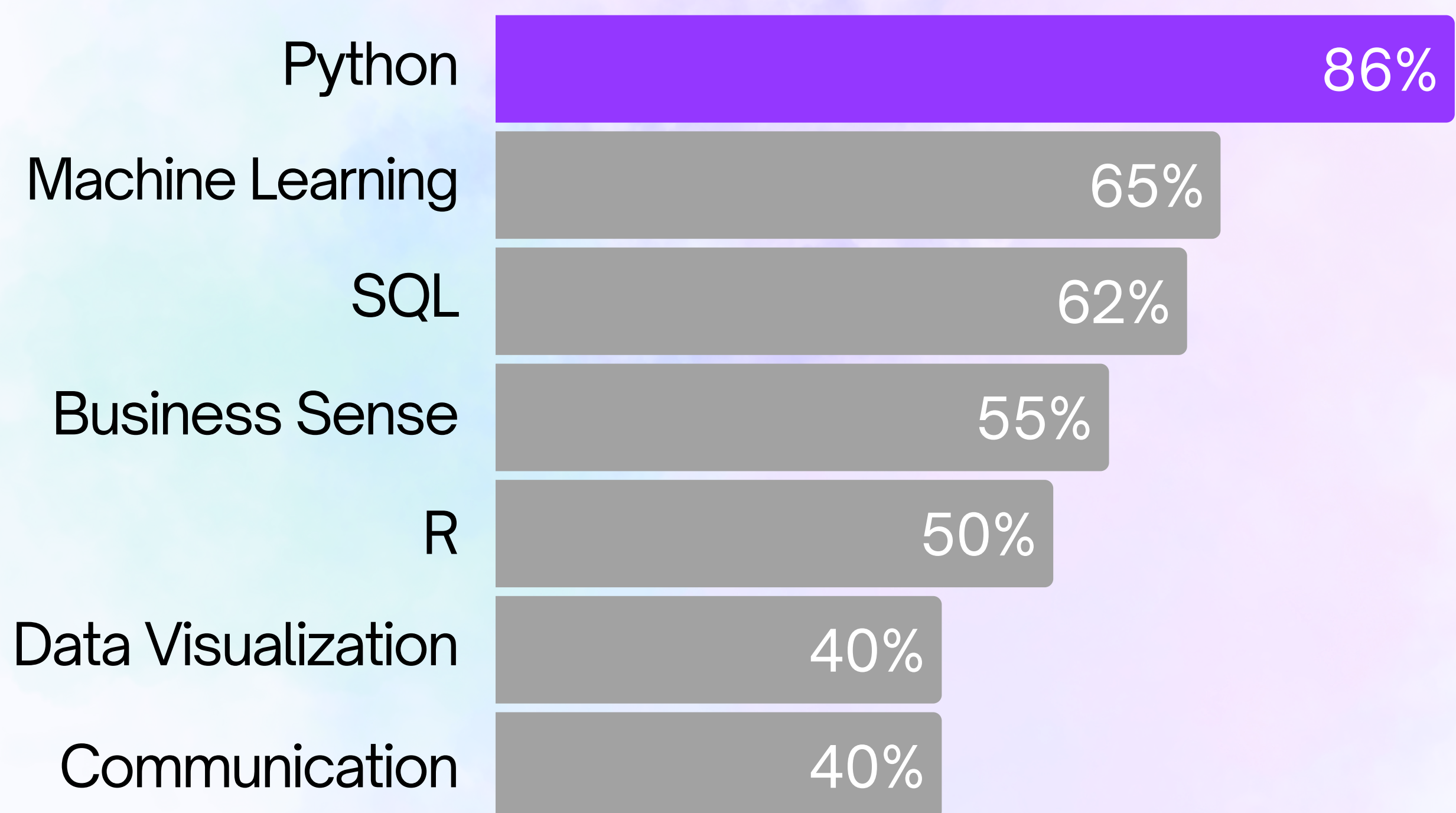
Here are the **top 7 skills** for Data Scientists right now



% of Data Science jobs that require this



Python is the #1 required skill in 2025



% of Data Science jobs that require this

Python and **R** were often listed together. But, Python was mentioned more frequently.

What does this mean for you?

Focus on learning Python for Data Science

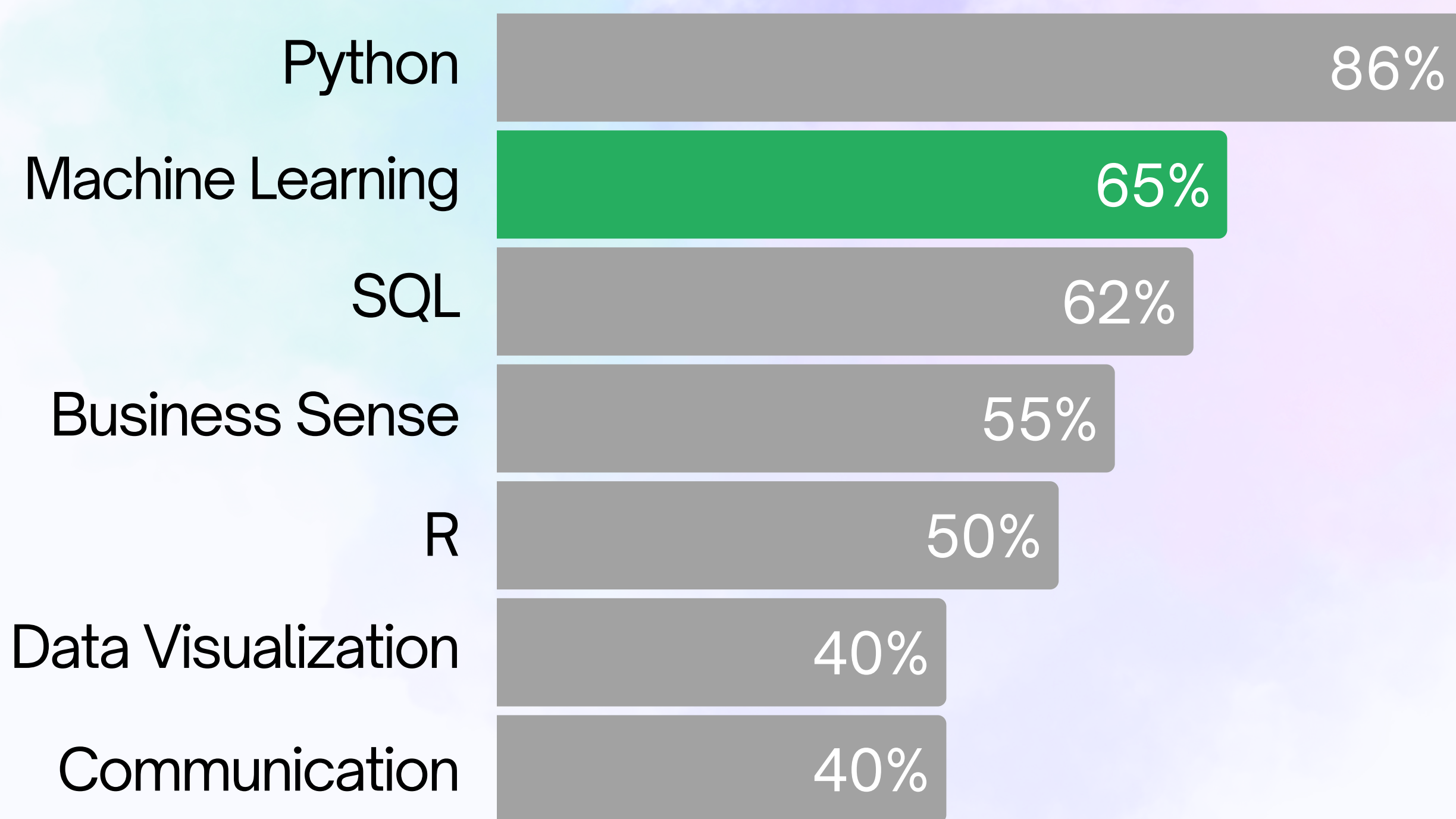
(Don't learn Python for Software Engineering)

Popular Python packages for Data Science include:

- **Pandas:** For data manipulation
- **NumPy:** For handling numerical data
- **Matplotlib:** For creating data visualizations
- **Scikit-learn:** For machine learning and predictive modeling
- **Statsmodels:** For statistical modeling and hypothesis testing

Machine Learning is the 2nd most required skill

Most job descriptions listed Machine Learning as a requirement but didn't provide specific branches of ML.



% of Data Science jobs that require this

What does this mean for you?

Focus on building a strong foundation in Statistics and Machine Learning... before moving to more complex models.



Statistics Fundamentals

Basic Machine Learning Models

e.g. regression and decision trees

Machine Learning Peripheries

feature engineering, model evaluation, and overfitting

Real-World Applications

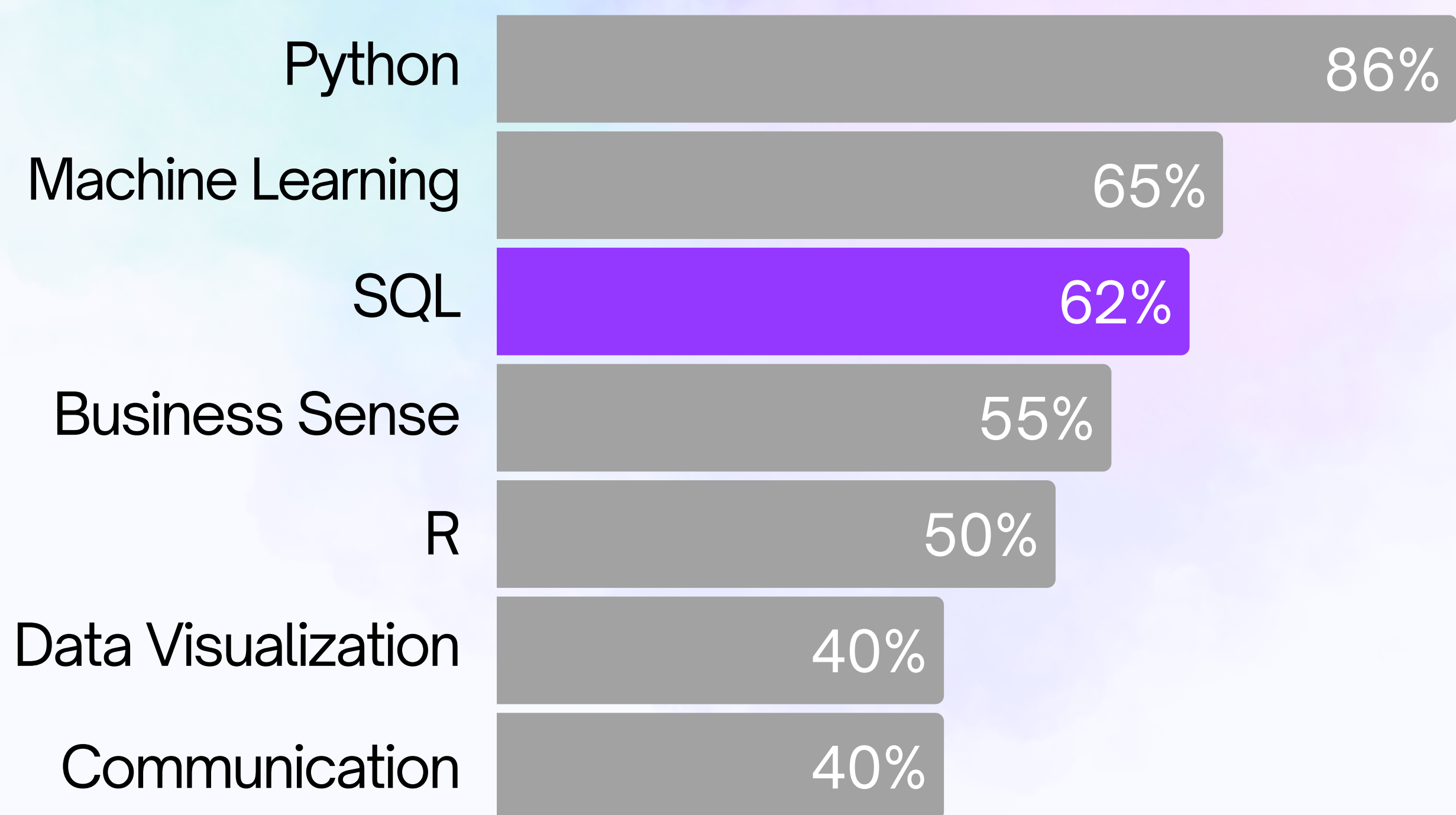
end-to-end workflows using ML models

Advanced Topics

NLP, deep learning, and complex architectures

SQL continues to be in high demand

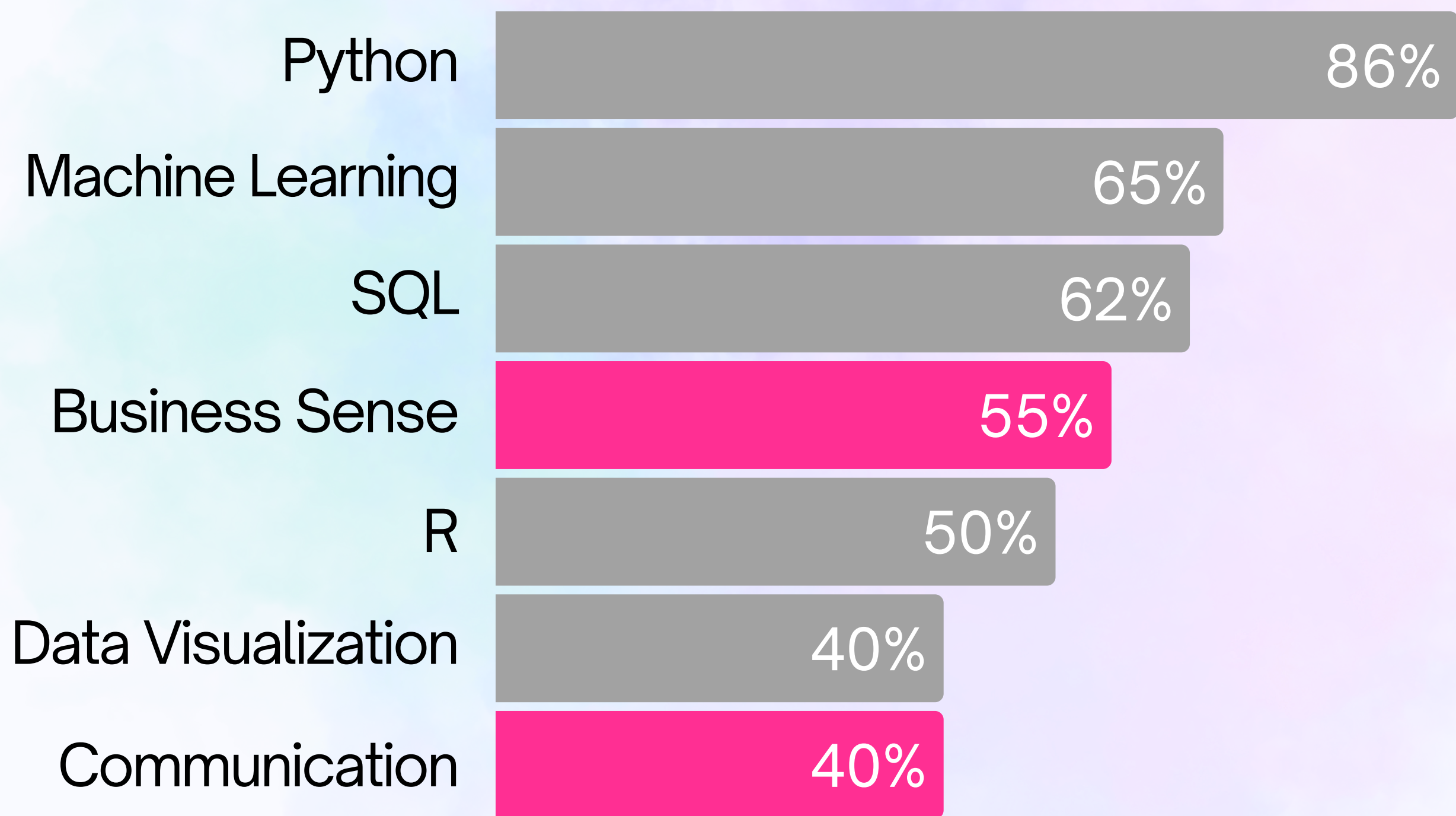
with more than half the jobs requiring SQL



% of Data Science jobs that require this

Companies require both technical & soft skills

Business Sense & Communication are the most requested soft skills



% of Data Science jobs that require this

How do we build business sense?

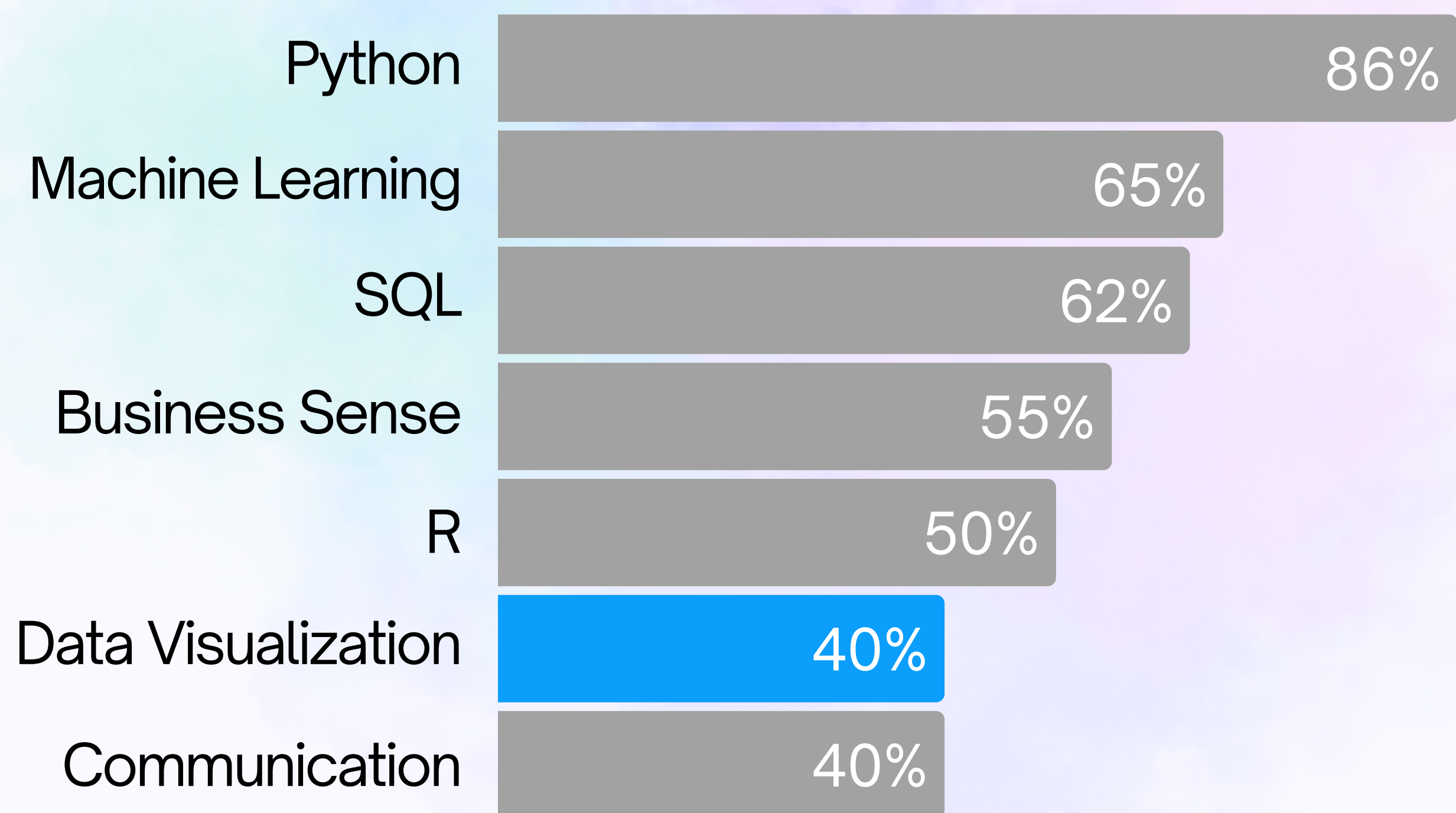
→ Build projects that solve a real-world problem

→ Read books on business sense and product sense

I highly recommend the book [Cracking the Product Manager interview](#)

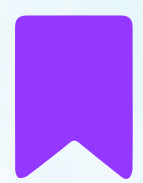
→ Read Tech blogs or earnings reports to learn what metrics matter most and how decisions are made.

Data Visualization is one of the top required skills, but companies don't require a specific tool



% of Data Science jobs that require this

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Dawn Choo