Master Your
Data Science Interview

Key Topics to Study for Success

- Soft Skills and Domain Knowledge 8.6%
- Statistics and Probability 10.8%
- Programming Skills 10.8%
- Data Manipulation 12.9%
- Model Deployment 8.6%
- Mathematics 7.5%
- Data Visualization 8.6%
- Big Data Technologies 8.6%
- Machine Learning 16.1%
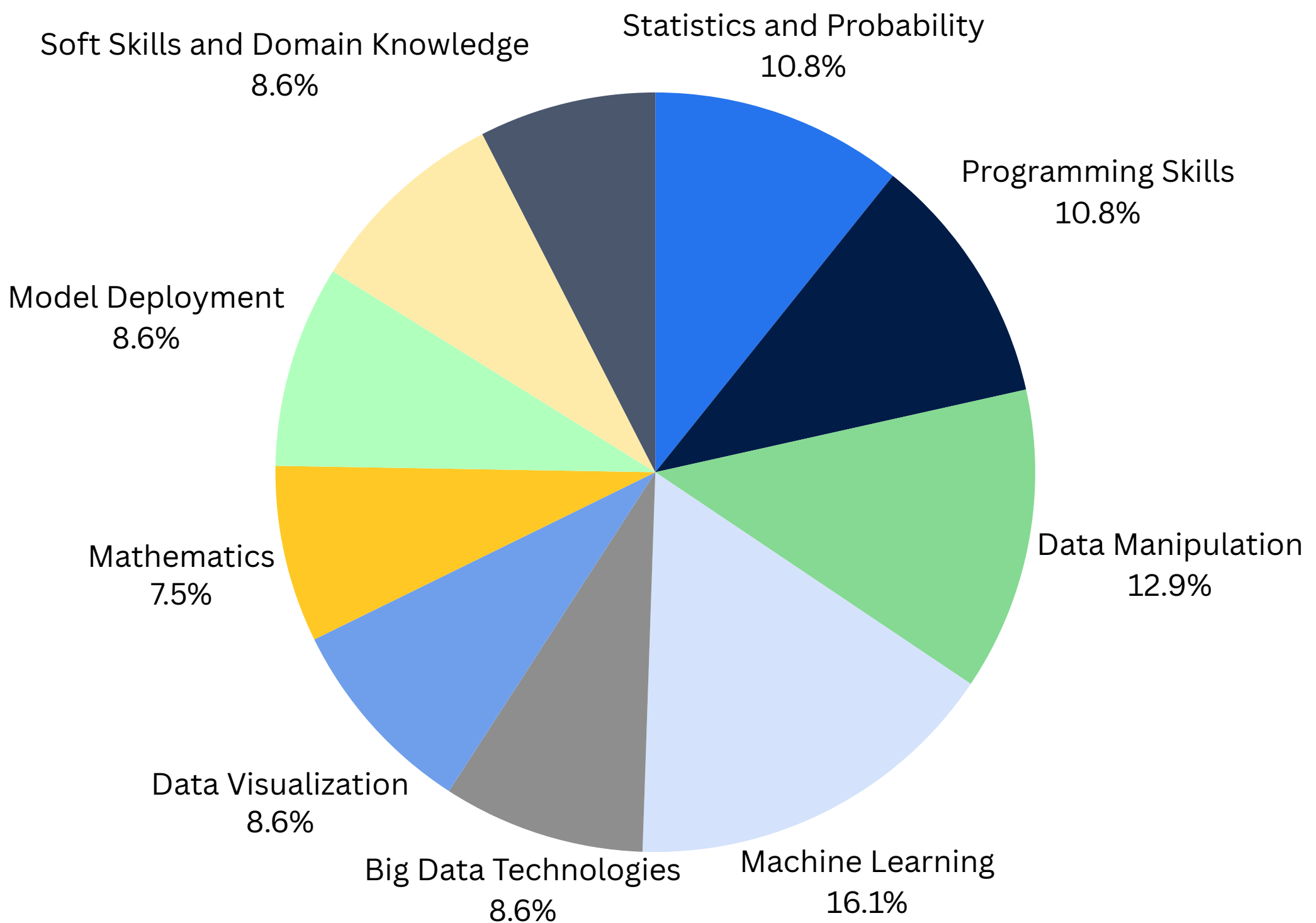
Statistics and Probability

- Descriptive and inferential statistics
- Probability distributions and statistical tests
- Hypothesis testing

Programming Skills

- Proficiency in Python or R
- Libraries like NumPy, Pandas, Matplotlib, Seaborn (Python) or tidyverse (R)
- Writing efficient, clean, and reusable code

Data Manipulation and Analysis

- Data cleaning and preprocessing
- Data exploration and visualization
- Understanding of SQL for data querying

Big Data Technologies

- Familiarity with Hadoop, Spark, or Flink
- Understanding of data warehousing and ETL processes

Machine Learning

- Supervised learning (regression, classification)
- Unsupervised learning (clustering, dimensionality reduction)
- Basics of neural networks and deep learning
- Model evaluation and validation
- Understanding of bias-variance tradeoff, overfitting, and underfitting

Data Visualization

- Principles of effective visualization
- Experience with visualization tools (e.g., Tableau, PowerBI)

Mathematics

- Linear algebra
- Calculus (especially for deep learning)

Model Deployment

- Knowledge of APIs, Docker, and web frameworks (e.g., Flask, Django)
- Understanding of model deployment lifecycle, A/B testing

Soft Skills and Domain Knowledge

- Ability to interpret results and communicate findings effectively
- Understanding of the business domain or sector you're applying to
- Problem-solving and critical thinking skills