

Introduction: Use Cases

1. **Web Development:** Python is widely used for web development due to its simplicity and ease of use. Popular web frameworks include Django and Flask.
2. **Data Science and Machine Learning:** Python is the go-to language for data science and machine learning due to its extensive libraries such as NumPy, Pandas, and Scikit-Learn.
3. **Scientific Computing:** Python is widely used in scientific computing applications, such as simulations and data analysis, due to its extensive libraries such as SciPy and Matplotlib.
4. **Automation:** Python is commonly used for automation tasks such as web scraping, data cleaning, and data processing.

