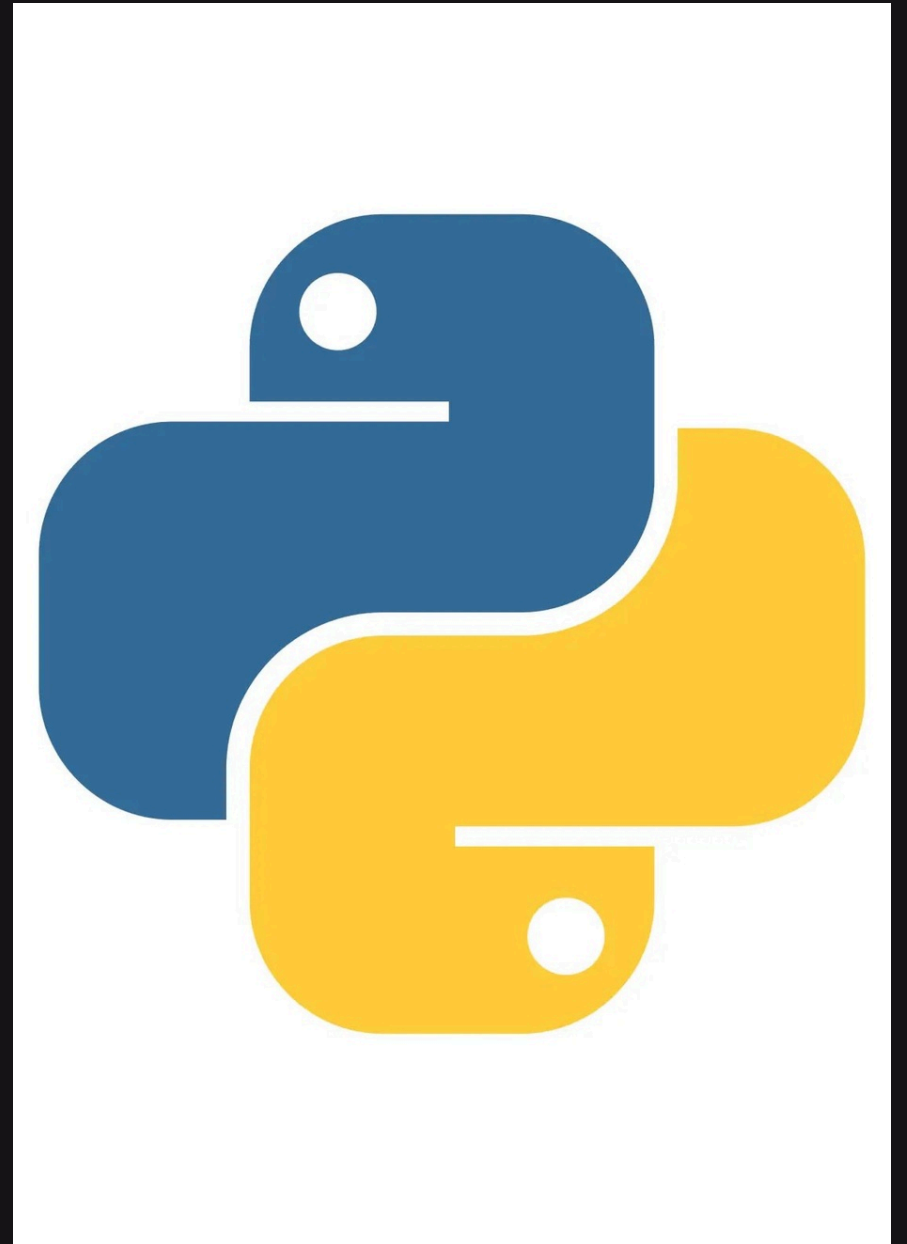# Overview of Python

Instructor

Prashant Sahu
Manager (Data Science), Analytics Vidhya

Background

Background of Python

Python was initially designed by Guido Van Rossum in 1991, and developed by the Python Software Foundation.

1 Widely used, general purpose, high-level programming language known for its readability and flexibility
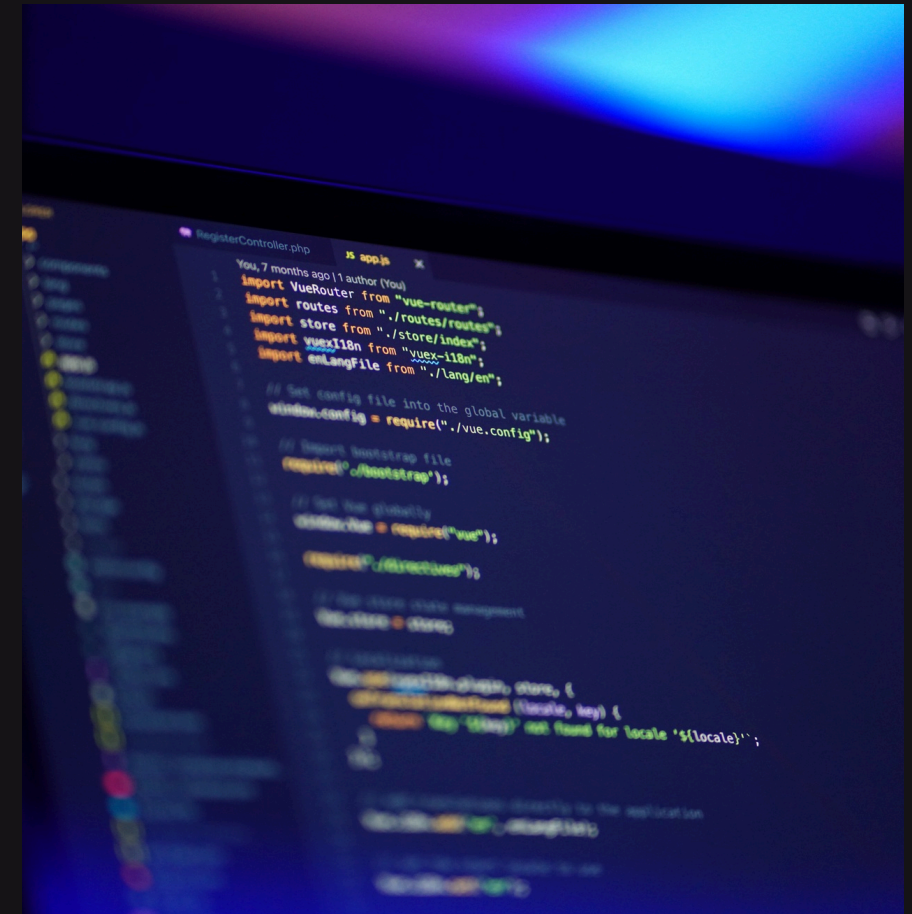
2 Used in wide variety of applications like scientific computing, data analysis, web development and artificial intelligence

3 Open source, providing free access to collection of libraries

4 An interpreted language, runs in a virtual environment, making it platform independent

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Why to use Python for Data Science

Python is commonly used in data analysis, automation or scripting, machine learning, web development, software testing and prototyping

Large Community
Boasts a vast and active community, offering support, tutorials and solutions to common issues

Easy Syntax
Clean and straightforward syntax allows to focus on solving problems

Open Source
Free to use and modify, with continuous improvements and contributions from developers around the world.
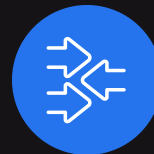
Rich Libraries
Offers a wide range of libraries like Pandas, NumPy, Matplotlib, and Scikit-learn making data visualization efficient
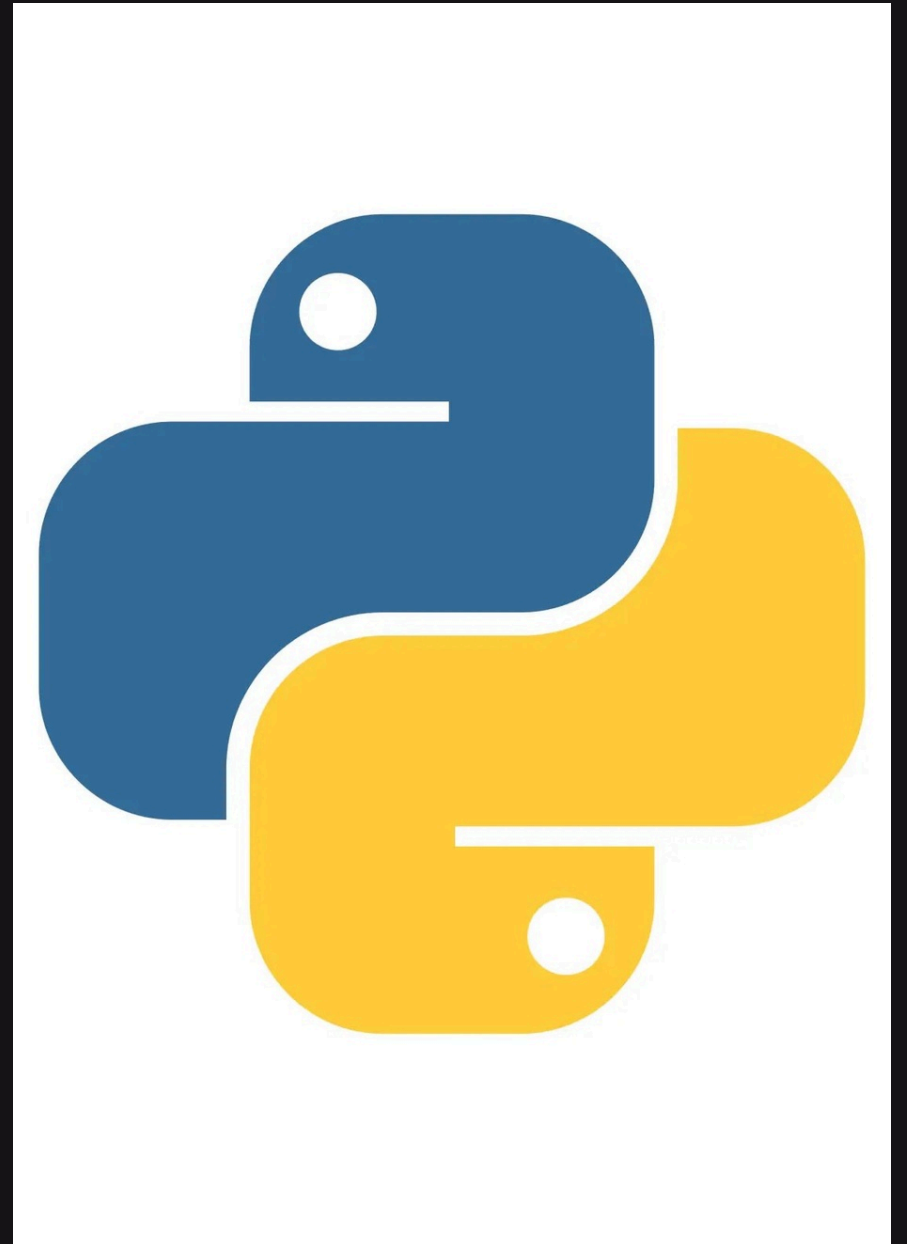
Job Opportunity
Popularity in the data science industry translates into numerous job opportunities
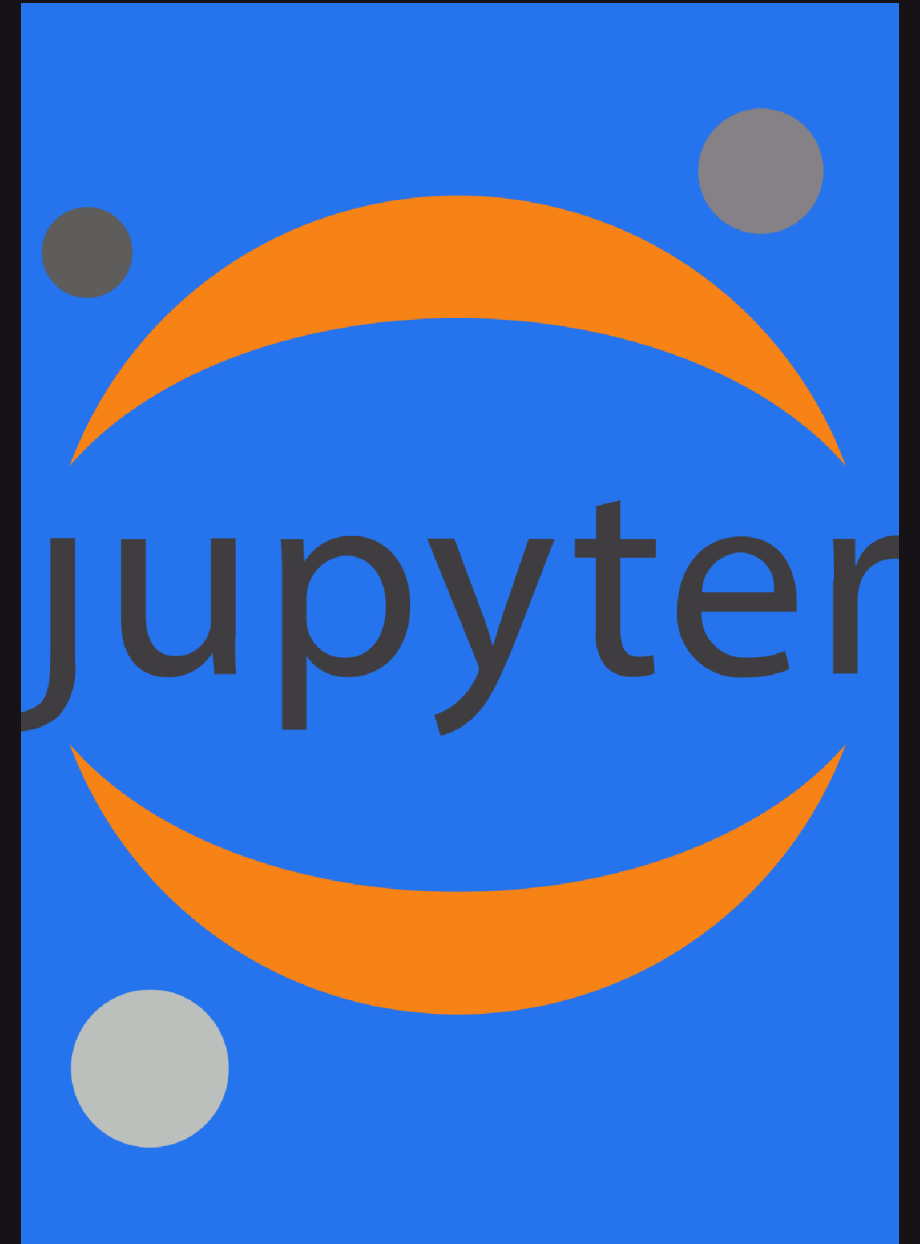
Platform Independent
Runs on various operating system (windows, macOS, Linux), ensuring execution on any platform

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Setting up Your System

Hands-on

Introduction to Jupyter Lab

Hands-on

Thank You