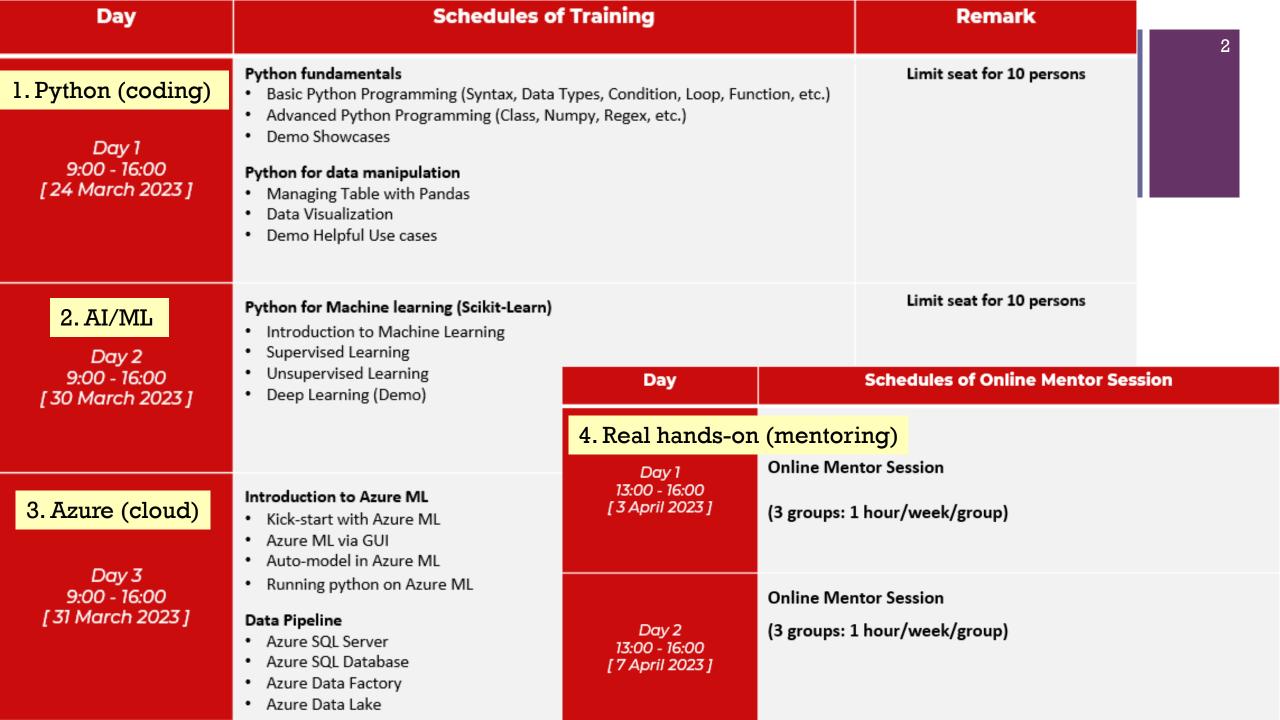


Course Introduction: Python, AI/ML, Azure

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Outlines

- Why Python?
- Python packages
- Top 10 programming languages for Data Science
- Top 10 Python libraries for Data Science
- ML tools
- Recommended resources

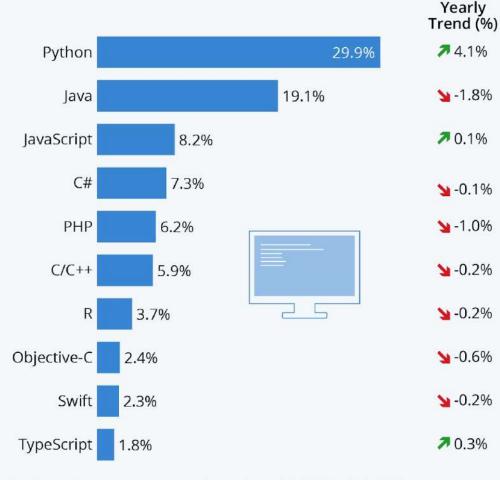




- Python Is Beginner-Friendly
- 2. Massive Libraries to facilitate data science and ML tasks
- 3. Worldwide popularity and usage
- 4. Adoption by Top Companies
- 5. Excellent Career Opportunities
- 6. Python is Good for Web Development
- 7. Easy GUI Development Using Python GUI Frameworks
- 8. Python is excellent for testing
- 9. Strong Community Support
- 10. Incredible Versatility

Python Remains Most Popular Programming Language

Popularity of each programming language based on share of tutorial searches in Google



Yearly trend compares percent change from Feb 2019 to Feb 2020 Sources: GitHub, Google Trends











Why Python is so popular? Python packages

2018

142,599 projects

1,001,945 releases

1,347,356 files

282,165 users



Mar-2023

441,202 projects

4,295,079 releases

7,834,309 files

683,087 users



The Python Package Index (PyPI) is a repository of software for the Python programming language.

PyPI helps you find and install software developed and shared by the Python community. <u>Learn</u> about installing packages .

Package authors use PyPI to distribute their software. <u>Learn how to package your Python code for PyPI C</u>.





Updated on 17th Mar, 23 @ 692 Views



Top Programming Languages for Data Science

In today's ever-growing competitive technology market, numerous data is being generated each day. Presently, 5 billion consumers are interacting with data daily. According to IDC, this is expected to reach 6 billion by 2025, i.e., nearly 76 percent of the population is going to conduct data operations every day. Hence, prior knowledge on Data Science Programming Languages help to deal with data quickly and efficiently.

- Python
- **■** R
- Scala
- Julia
- Java

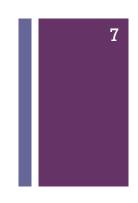
- SQL
- MATLAB
- JavaScript
- SAS
- C++

Top 10 Python Libraries for Data Science in 2023

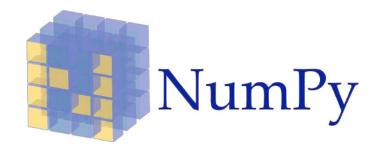
POSTED ON March 17, 2023

POSTED BY Muhammad Ahmad

















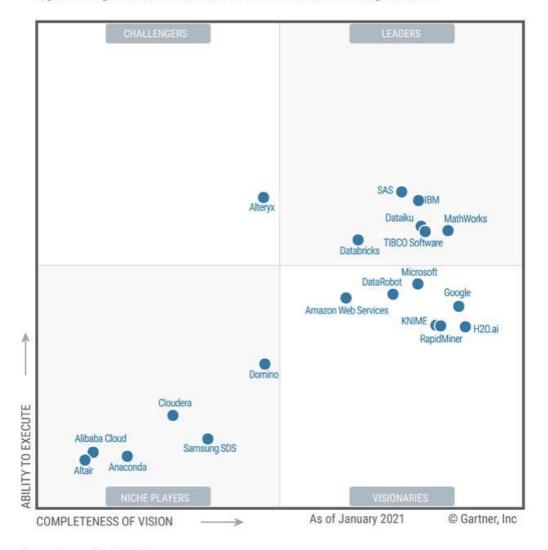




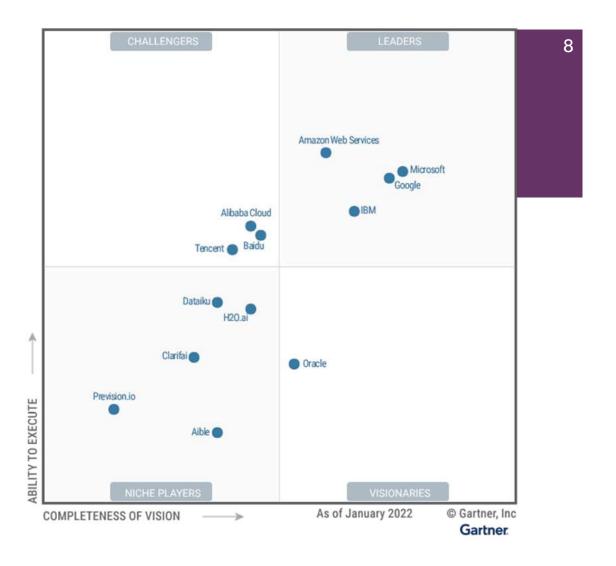


+ ML tools

Figure 1: Magic Quadrant for Data Science and Machine Learning Platforms



Source: Gartner (March 2021)



https://cloud.google.com/resources/2022-gartner-magic-quadrant-cloud-ai-developer-services-report

https://techcommunity.microsoft.com/t5/azure-partner-community/microsoft-is-a-leader-in-2022-gartner-magic-quadrant-for-cloud/td-p/3599976



Recommended resources

- กิตติภณ พละการ, กิตติภพ พละการ, สมชาย ประสิทธิ์จูตระกูล และ สุกรี สินธุภิญโญ, หนังสือสอนเขียนโปรแกรมภาษา Python ใช้ ประกอบการเรียนวิชา 2110101 Computer Programming, ภาควิชาวิศวกรรมคอมพิวเตอร์ จุฬาลงกรณ์มหาวิทยาลัย https://www.cp.eng.chula.ac.th/~somchai/
- Python for Data Science and Machine Learning Bootcamp https://www.udemy.com/python-for-data-science-and-machine-learning-bootcamp/



Course Review: Python for Data Science and Machine Learning Bootcamp





stackabuse.com



รศ. ดร. สมชาย ประสิทธิ์จูตระกูล

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Any Questions?