



AiNS Computer Institute

PYTHON

JOIN
AiNS

"Unleash Your Code's Power with
Python!"

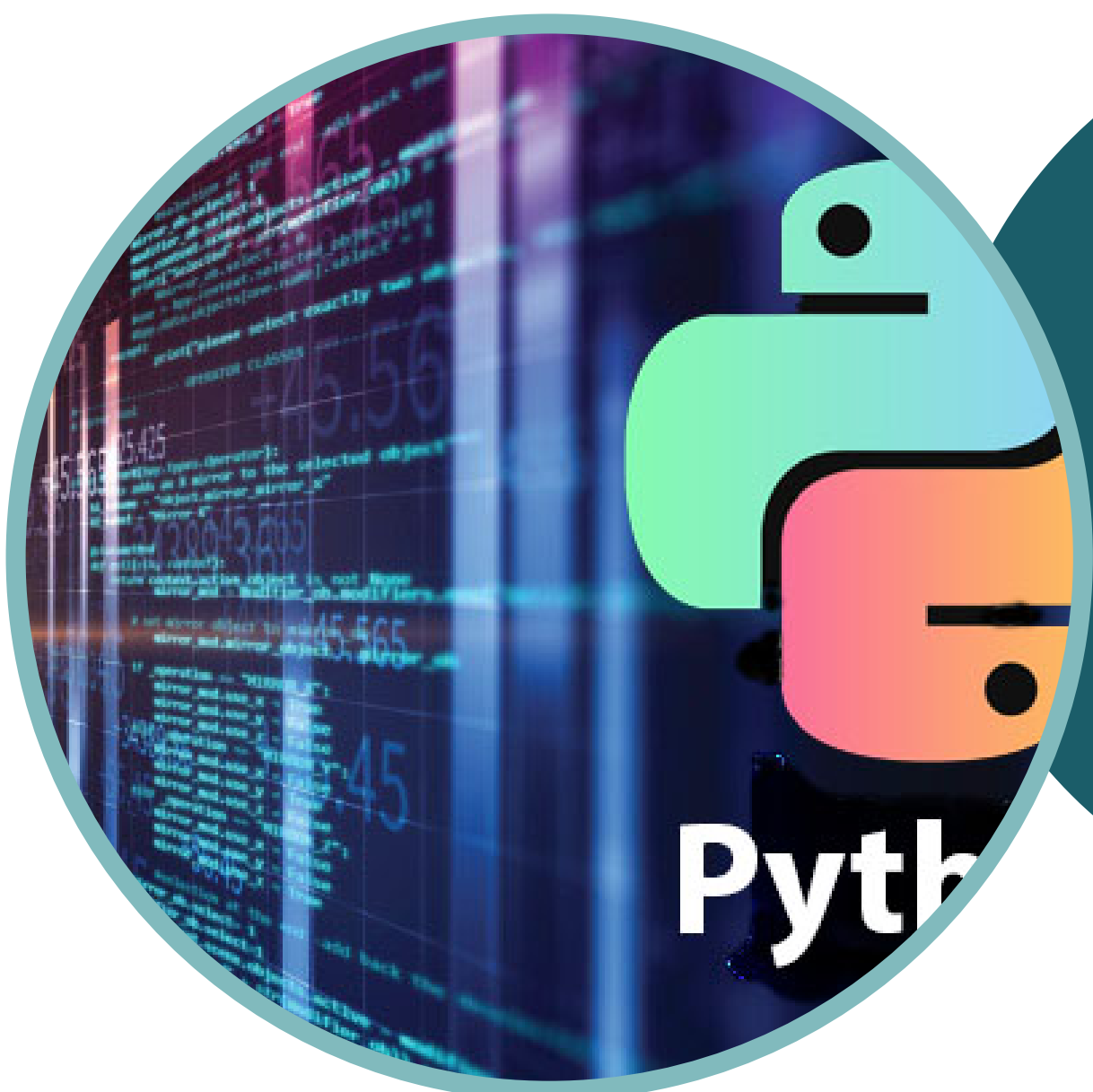


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PYTHON?

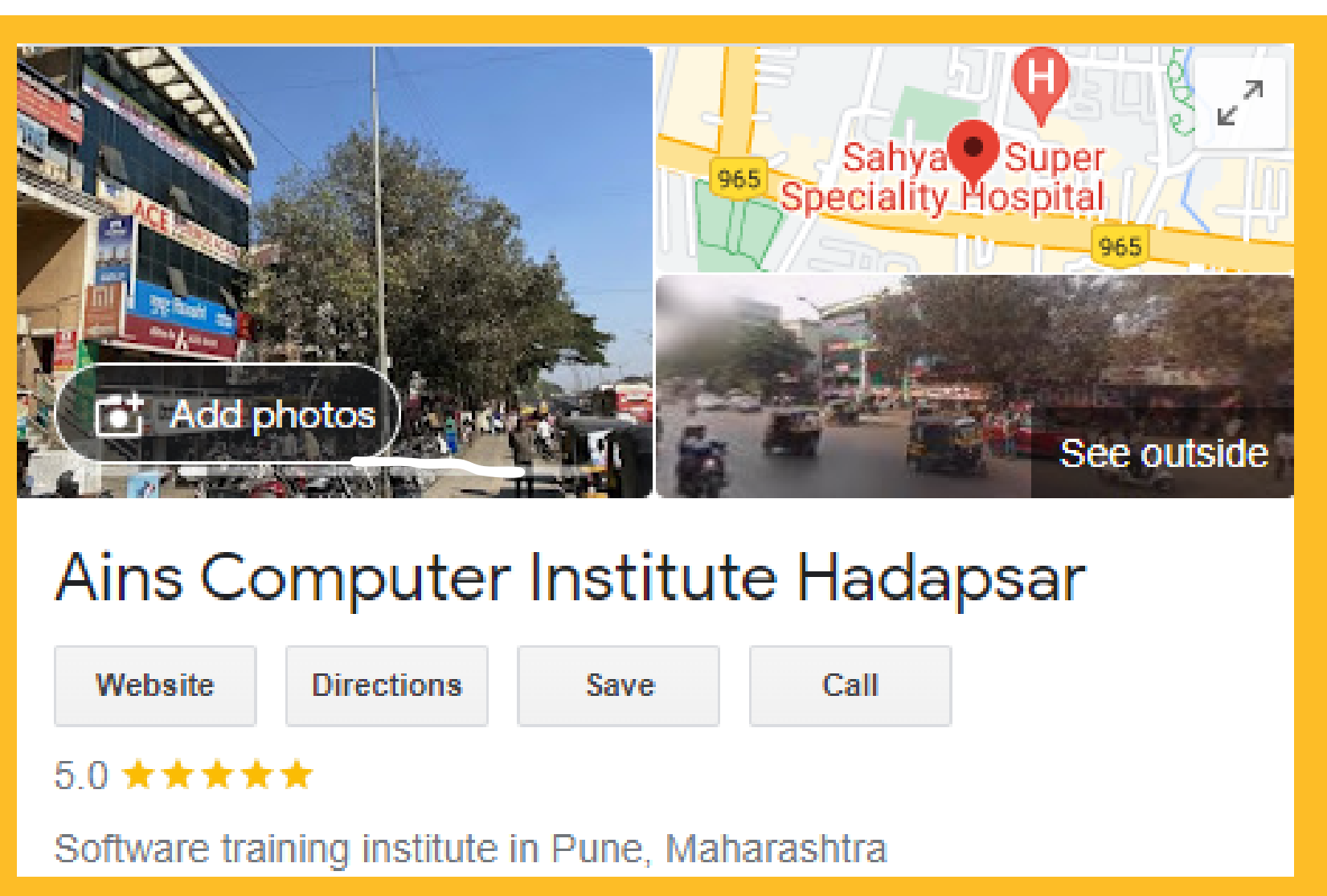
Python is a user-friendly, versatile programming language renowned for its simplicity and readability. It boasts a vast ecosystem of libraries and frameworks, making it suitable for web development, data analysis, machine learning, and more. With dynamic typing and cross-platform compatibility, Python is an ideal choice for beginners and seasoned developers alike.



WHY AiNS?



AiNS Computer Institute stands out as the premier choice for Python courses due to its exceptional faculty and comprehensive curriculum. With a team of highly skilled instructors who possess extensive industry experience, students receive top-notch guidance and mentorship throughout their learning journey. The institute's Python course is meticulously designed to cover fundamental concepts and advanced topics, ensuring that students gain a thorough understanding of the language's capabilities. Additionally, AiNS Computer Institute prioritizes hands-on learning, providing ample opportunities for practical application through projects and exercises. By choosing AiNS Computer Institute, students can expect to receive unparalleled support, quality education, and a solid foundation in Python programming, setting them up for success in the ever-evolving tech landscape.



BENEFITS at AiNS



- 1 **Expert Faculty**
- 2 **Industry-Relevant Curriculum**
- 3 **Career Guidance & Opportunities**
- 4 **Recognized ISO Certification**
- 5 **Real-World Data Analysis Projects**
- 6 **Access to Premium Tools and Datasets**
- 7 **Get Interview Ready & Resume Building**
- 8 **100% Job Assistance**



Certificate of Completion

This Certificate is presented to SAMPLE for successfully completing

his/her course in SAMPLE by securing 99%

We wish him/her success in life.

*(This percentage is based on student's Practical
& Written examination)*

Digitally signed by

Nasir Hassan Nasir Hassan Khan

Khan
Date: 2024.03.16
16:08:40 +05'30'



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AUTHORISED SIGNATORY
DIRECTOR

OUR CERTIFICATION:

ISO course certification offers several advantages:

1. **International Recognition:** ISO certifications are globally recognized, demonstrating compliance with international standards and best practices.
2. **Enhanced Credibility:** Certification enhances the credibility and reputation of the organization, instilling confidence in customers, stakeholders, and partners.
3. **Improved Efficiency:** ISO standards often focus on improving processes, leading to increased efficiency, reduced waste, and cost savings.
4. **Market Access:** Certification can provide easier access to new markets, as many contracts and tenders require ISO certification as a prerequisite.
5. **Risk Management:** ISO standards help identify and mitigate risks, ensuring better management of potential threats to the organization.
6. **Customer Satisfaction:** Compliance with ISO standards often leads to higher customer satisfaction due to improved quality and consistency of products or services.
7. **Competitive Advantage:** Certification can give a competitive edge by demonstrating commitment to quality, safety, and environmental responsibility.
8. **Legal Compliance:** ISO standards often align with legal requirements, ensuring compliance and reducing the risk of penalties or legal issues.
9. **Continuous Improvement:** ISO certification encourages a culture of continuous improvement, leading to ongoing refinement of processes and performance.
10. **Employee Morale:** Employees often take pride in working for a certified organization, leading to increased morale and motivation.

value

adding



DEMAND:

The demand for Python programming skills has been consistently high and continues to grow rapidly. Several factors contribute to this strong demand:

- 1. ****Versatility****:** Python's versatility allows it to be used across various domains such as web development, data science, machine learning, artificial intelligence, automation, scientific computing, and more. Its flexibility makes it a preferred choice for a wide range of applications.
- 2. ****Popularity****:** Python has consistently ranked among the most popular programming languages in various industry surveys and indices. Its popularity is driven by factors such as ease of learning, readability, extensive libraries, and active community support.
- 3. ****Data Science and Machine Learning****:** Python is the go-to language for data science and machine learning projects. Libraries such as NumPy, pandas, scikit-learn, TensorFlow, and PyTorch provide robust tools and frameworks for data analysis, modeling, and deep learning.
- 4. ****Web Development****:** Frameworks like Django and Flask have made Python a popular choice for web development. Its simplicity and scalability make it suitable for building everything from simple websites to complex web applications.
- 5. ****Automation and Scripting****:** Python's ease of use and powerful libraries make it well-suited for automation tasks and scripting. It is widely used for tasks such as system administration, network programming, and scripting repetitive tasks.
- 6. ****Community and Industry Support****:** Python has a large and active community of developers, educators, and contributors who continuously enhance the language, develop new libraries, and provide support. Many tech giants and startups rely on Python for their projects, further driving its demand in the industry.

Overall, the demand for Python skills is expected to remain high and grow further as industries increasingly adopt technology-driven solutions and seek professionals proficient in Python programming for various roles and projects.



 **Interactive**

 **Modular & Dynamic**

 **Object-oriented**

 **Portable**

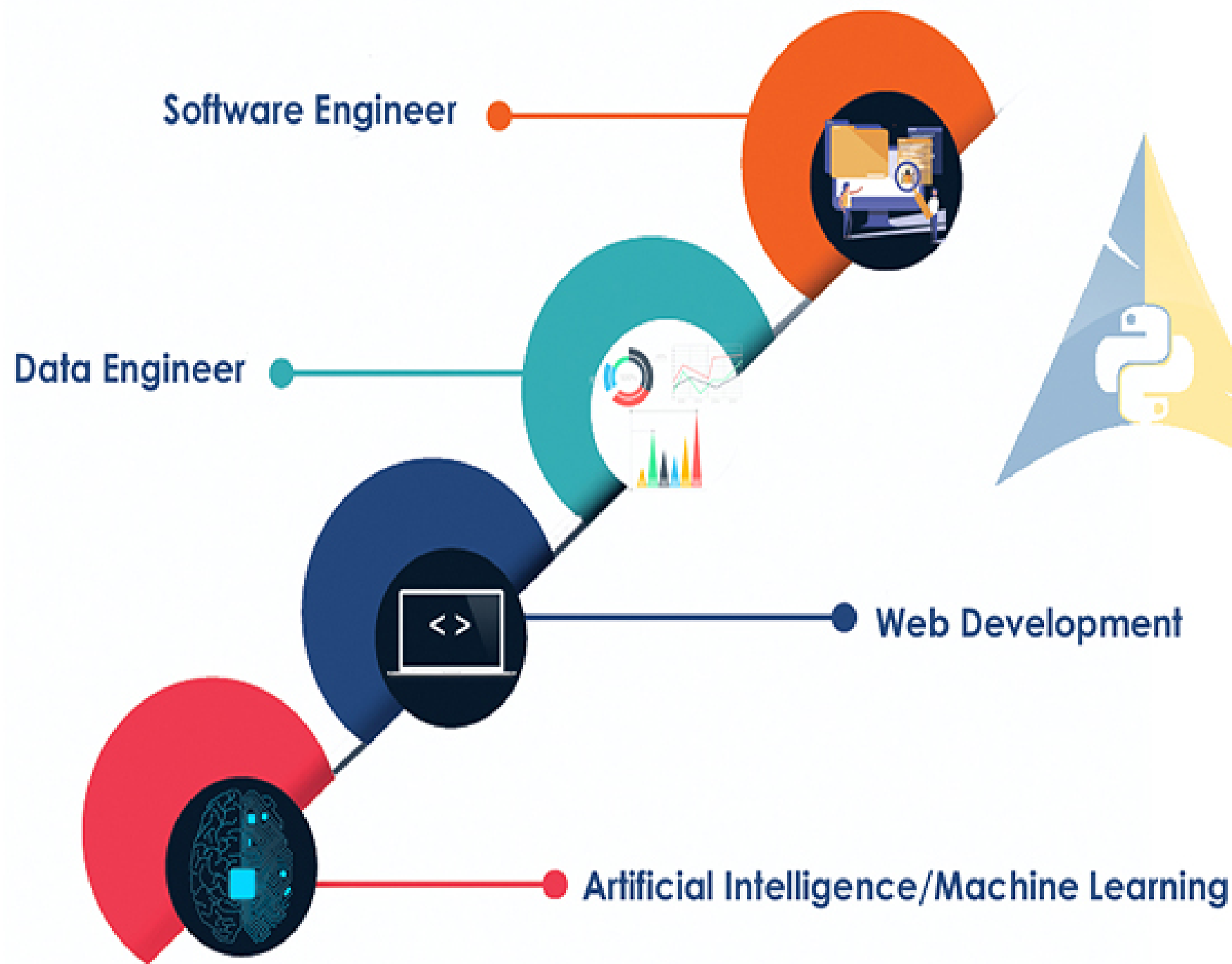
 **High level**





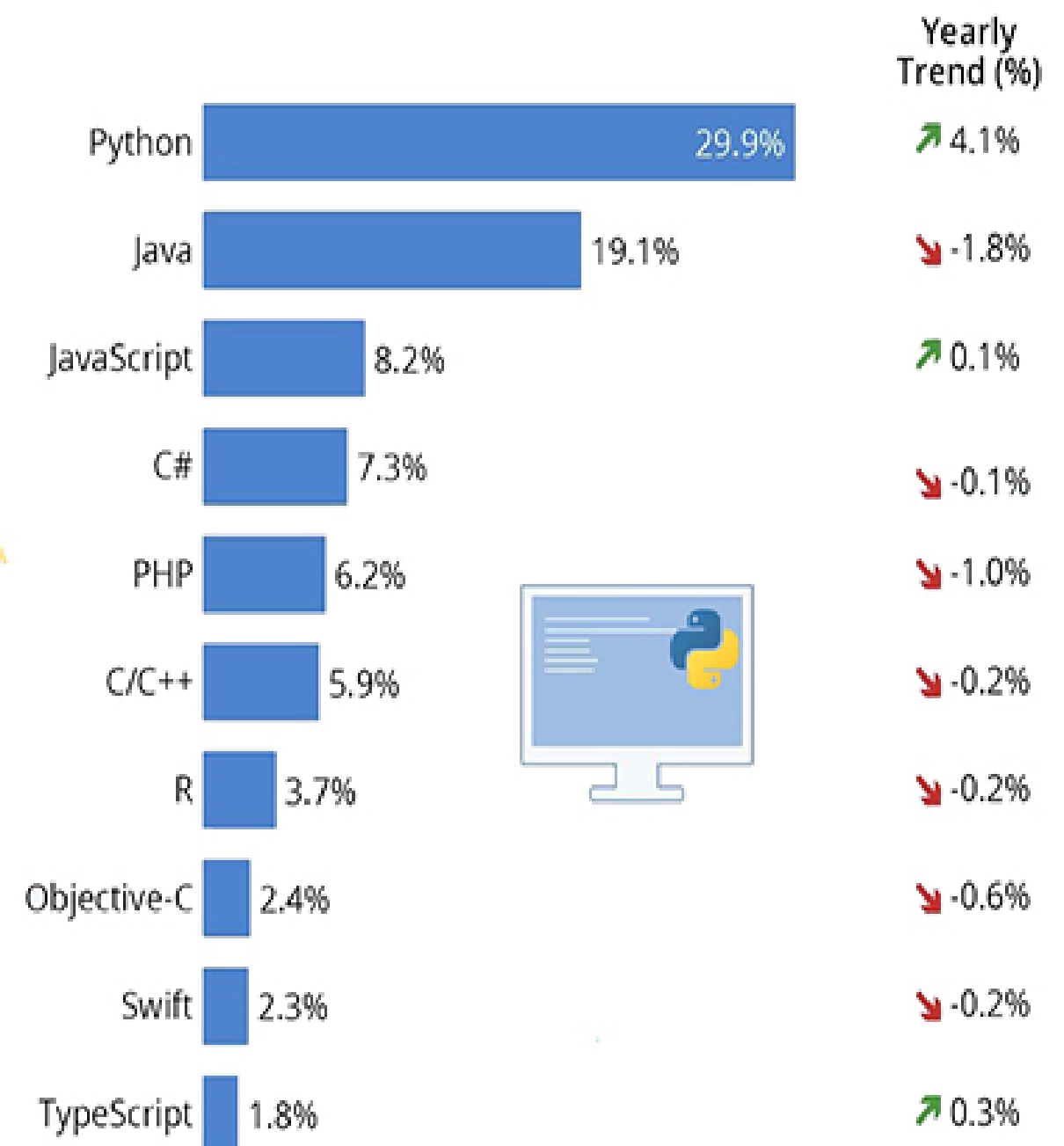
Career Opportunity in Python

Python in various sectors

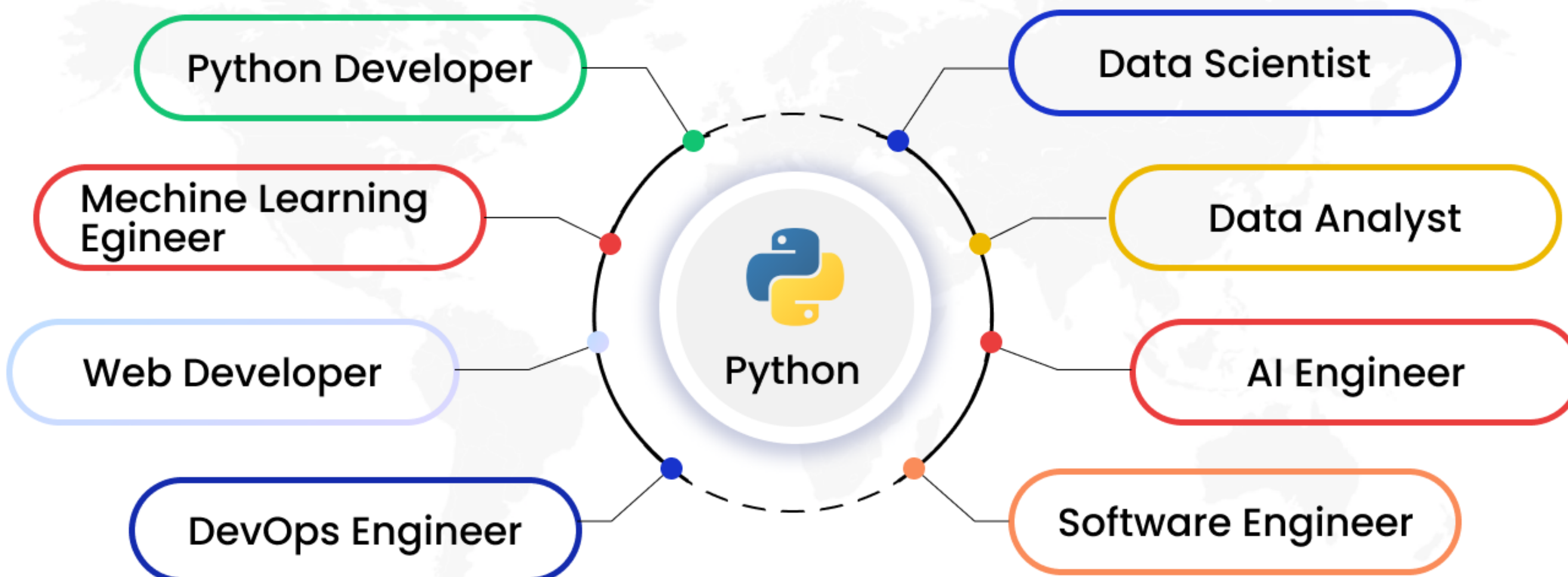


Python Remains Most Popular Programming Language

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



Different Python Career Opportunities



TOP COMPANIES HIRING PYTHON DEVELOPERS:



PYTHON

1.1 Introduction to Python.

- Installation & Environment settings.
- Introduction to Shell.

1.2 Variables, Keywords, Data types and Identifiers.

- Variables
- Keywords
- Data types
- Identifiers

1.3 String, List, Set, Tuple and Dictionary and Slicing

- String Data types
- List Data types
- Set Data types
- Tuple Data types
- Dictionary Data types
- Slicing



1.4 Operators

- Arithmetic Operators
- Logical Operators
- Relational Operators
- Bitwise operators
- Assignment Operators
- Membership Operators
- Identity Operators

1.5 Control Statements

- Decisional Statements
- Looping Statements
- Break, Continue and Pass



1.6 Input and Print Statements

- Input statements
- Print statements

1.7 Functions or Methods

- Types of Functions
- Recursion
- Arguments
- Packing and unpacking(varargs)

1.8 Oops

- Class, Objects
- Inheritance
- Method Overriding
- Access Specifies

1.9 File Handling and Json

- Flat File Handling
- Json
- Pickle

1.10 Exception Handling

- Try
- Except and final
- Custom Exceptions
- Raising Exceptions
- Assertions

1.11 Comprehension

- List Comprehension

1.12 Decorators

- Method
- Class Level

1.13 Map, Filter and Lambda Expressions

1.14 Iterators and Generators

