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Python and Its Future Scope

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Abstract: *Python is an advanced programming language designed by Guido van Rossum, Dutch editor. Generally, "python programming language is widely used in web development, Application development, system management, game development etc. " But did you know that there is a technology for the future who rely on an anaconda? In fact, Python has become the dominant language to the success of these technology is concerned. Let's dive into technology that uses python as a core research, production and other developments.*
Artificial Intelligence (AI), Big Data, Network
The future scope of the Python programming language too it depends on its competitors in the IT market. But, because the fact that it has become the language of the future technologies such as artificial intelligence, big data, etc., it will certainly go up and be able to overcome it rivals.
Tiobe Index, PYPL index, Dismiss
The top three Python competitors in India are listed below and their market shares and now websites.
1.ASP.NET
Market Share- 39.53%, Current Webs- 41,052.
2.Java
Market Share - 4.03%, Current Websites 4,186.
3.C #
Market Share - 1.97%, Current 2,042 Websites

Keywords: Python

I. INTRODUCTION

There are some popular websites developed in Python-

- YouTube
- Quora
- Instagram
- Pinterest
- Spotify
- Flipkart
- Loose
- Uber
- Cloudera
- Zenefits

In addition, many small and large organizations and previously mentioned attempts when using Python increase their productivity and meet their needs customers. Even government agencies use python to protect websites and add more functionality. CIA (Central Intelligence Agency) of the USA is an example of it. We mentioned some of the biggest ones. Organizations operating around the world Deploying and in-depth development of Python framework for dealing with field productions gets.

1. NASA - A massive workflow automation system and Application written and developed in python by NASA's shuttle support contractor USA (United States Space Alliance). NASA also uses Python for its various open-source Projects like APOD (Astronomy Picture Day) API, PyTransit, PyMDP Toolbox, EVEREST etc.
2. Walt Disney Feature Animation - Walt Disney Feature Animation uses python as writing language with its many animation flavors as well related production.

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3. AlphaGene, Inc. - AlphaGene is a biotechnology company based on United States responsible for genetic discovery and protein. It uses python in its bioinformatics as well tracking system.
4. The Red Hat - It is an international computer software company. Based in the United States. Using the installer, Anaconda, written in python to include RHEL (Red Hat Enterprise Linux) and Fedora applications.
5. Nokia - Well, you all are already familiar with this celebrity mobile retailer in the world. In IT Finland, consumer electricity, and telecommunications industry origin.
6. IBM - IBM is an international computer based in the United States production company. It uses python in the factory tool control applications are in its small semiconductor plant in East Fishkill. These tools are used for management data collection, inventory etc.

1.1 Recent Posts by Python

Python is a common target language sometimes called utilitarian i.e., designed to be easy to read and write. The point is that it is not a complex language It is important that the designers have placed little emphasis on traditional emphasis syntax, which makes it easier to work with than any others are not editors or developers. And because it has to be universal too meets different developmental needs. It's a language that offers many options for the editor in general. If they start working with Python for a single job or activity, they can jump to another, even if it's in unrelated industry. Language is used for the system tasks, web development, server and management tools, deployment, science modeling many more. But surprisingly, most developers do not take Python as their first language. Because it is so easy to use and learn that they choose it as the second or third language. This may be one reason why it is so is popular among developers. At the same time, it happens that one of the worlds. Google has used language in many of them applications.

In addition, the popularity of PHP increases using Django framework for web development as well design has also contributed to Python's success, but in the end, it is a complete, privileged storm number of engineers and official support where I search. It is possible. Some of the vague reasons why Python has most popular in recent years:

1. Python has a healthy, efficient and excellent performance community for obvious reasons, incoming planning languages documentation and developer support is not possible well. Python does not have all those problems. Kube in the long run, there is more texts, guidelines, tutorials and more the engineering community works amazingly well. This means that whenever someone needs help or support, they can find out then. Also, like any experienced editor or developer you know, support can make or break you when you run on development issues in times of crisis.
2. It is very useful if the programming language has business sponsor. C# has Microsoft, Java has Sun too PHP is used by Facebook. Google has adopted Python very back in 2006, and applied it to many platforms and applications from there. It contributes to a growing list of texts as well supports and provides free language advertising, at least in the world of development
3. The use of big data and cloud computing solutions in the business world has helped make skyrocket Python has been a success. It is one of the most famous languages used in data science, second to R. It is it is also used for machine learning and AI programs and various modern technologies.
4. Python has amazing libraries If you are working on a big project, libraries can it really helps you to save time and reduce the first one development cycle. Python has excellent options libraries, from NumPy and SciPy science computer in Django for web development. There are even more specific libraries focus, like scikit-learn machine learning applications and nltk native language processing.
5. You can run and run Python applications almost anywhere, and there is none loss of function no matter what you work for. And, because it is flexible, it also means you can apply to many domains, including, but not limited to in - web development, desktop applications, mobile applications, hardware and more. We are not bound by any single domain or domain, either provides the same experience everywhere.
6. For beginners, Python is incredibly readable too use. In fact, it is the most accessible system languages. Part of the reason is simplified syntax with an emphasis on natural language. But also because you can write Python code and use it extensively immediately.

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No matter what the great language of beginners, so this is where most of the new engineers start. More importantly, experienced engineers are not resident along the way and much to do. The future of Python-Python is a general goal language - designed to be easy to learn again write.

The point is, it is not a complex language what is important is that the designers emphasize it a bit traditional syntax, which makes it easy to work with, even non-editors or developers. Python rises in computer science, machine learning, software development, and data analysis. Its flexibility is one of the reasons widespread use. Succeeding in business, such as in the language of fairy tales, and in the classroom. 58% of respondents said they use language both at home and at work.

The most common use of Python for data science 59% of respondents. Web development (51%) and machine learning (40%) follows. The Result-CodinGame 2020 developer survey says Python is a very popular programming language. What editing languages are preferred by engineers? very much — and what are they afraid of? CodinGame has answers, as the company conducted more than 21,000 surveys developers.

The Python Software Foundation and JetBrains have run the third official Python Developers Research. As in the previous survey, we started to do so identify the latest trends and gather an understanding of what the world of Python development looks set by 2020. Details as 24K Python developers from over 150 Different countries help us find the image of the Peacock community.

II. CONCLUSION

Python is a high quality and programming language designed by Guido van Rossum, Dutch program coordinator, it has all the features as a standard system languages like C, C ++ and Java have. It is one of the fastest growing languages and Edge has it has passed a successful 25-year adoption so in all anxiety. This achievement is so diverse that a promising future is the scope of the python system language. In fact, it works continuously as a moving average application programming language, web development, game development, program administration, computer science and numbers. Future Technologies Calculated in Python-Generally, we saw that the python system language is broad used for web development, application development, system management, game development etc. But did you know that there is a technology for the future relying on an anaconda? In fact, Python has become is concerned about this technology, so let's dive into IT technology that uses python as a core research, production and other developments.

2.1 Artificial Intelligence (AI)

Certainly the language of the python program dominating other languages in the future technologies such as Artificial Intelligence (AI) ask in the game. Libraries and tools developed specifically for administration Artificial Intelligence to reduce one's efforts with increased accuracy and efficiency of diversity development goals. Only Artificial Intelligence did it, It is possible to improve its winning speech recognition system, private cars, translating data like Many for python frames, pictures, videos etc. Below are some of the python libraries and tools used in various branches of Artificial Intelligence.

- Machine learning - PyML, PyBrain, scikit-learn, MDP Toolkit, GraphLab Create, MIPy etc.
- General AI- pyDatalog, AIMA, EasyAI, SimpleAI etc.
- Neural Networks- PyAnn, pyrenn, ffnet, neurolab etc.
- Natural Language & Text Processing- Quepy, NLTK, gensim

2.2 Big Data

The future is bright with the python system language. It can also be predicted how it will happen helped big data technology to grow. Python has it has been instrumental in the great analysis the number of data sets in all computer collections its tools work very well with libraries.

2.3 Network

Network is another area where python has a bright range in the future. Python programming language is used for reading and writing and editing routers and switches and other networking automatic functions in an inexpensive and secure way.

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