## Exploring the Random Module: Generating Basic Random Numbers in Python

Are you a pro gamer? A game enthusiast? A geek? If you are, you might have observed the use of random numbers in almost every game. A dice game is one of the finest examples of random number generation. Suppose you are playing this game with a machine online. You roll the dice and get …

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## eBPF: The Key to Visibility and Control in Kubernetes

eBPF is a powerful tool that can be used to monitor Kubernetes in a variety of ways. Despite being a relatively new technology, it is quickly gaining popularity due to its flexibility and performance. With eBPF, developers can write and load custom programs into the kernel, allowing them to efficiently intercept and analyze events at …

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## Eigenvalue Decomposition In Python

Eigenvalue decomposition plays a very vital role in easing the complexity of the matrix in the Linear Algebra field. The square matrix is broken down into simple components, i.e., eigenvalues and their eigenvectors. In different machine learning and deep learning models, we need to deal with the square matrix. This matrix needs to be sorted, …

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## Beginner's Guide to Redis with Python

In this article, we will extensively cover what Redis is and how it can be used alongside Python. Since both of these technologies are trending, it is a great tool to have in your bag. Let's get started with understanding some basics What is Redis? Often referred to as a data structure server, Redis is …

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## Parallelizing a Simple Python Loop for Improved Performance

In the world of programming, the most precious resource is time. Are you tired of waiting for those supposedly never-ending cycles to end? Enter the parallelization world, where your code may use the power of many cores to complete jobs incredibly quickly. To give your programs a boost, parallelizing even the simplest loops will be …

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## Converting Base10 Integer into Base64 Representation in Python

Converting Base10 integer into a Base64 representation in Python will be learned in the article. Let us go through each and every pointer and concept so that we can gain thorough knowledge about this concept. Number System and Need for Different Representation Computations and measurements are enabled by the fundamental units of mathematics, which are …

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## Python: 'Break' in List Comprehension

In this article, we will go into great detail about the idea of using a break statement in a list comprehension. We will not only understand the concepts but also get hands-on practice with various code snippets and examples. Let's start by understanding list comprehensions and their use with break statements. List comprehension and control …

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## Python NumPy: Solving Coupled Differential Equations

Coupled differential equations and why they are important to our understanding will be learned in this article How to solve coupled differential equations using NumPy is the main objective of this article. A robust Python package used for calculations is called NumPy. To learn more about NumPy read the linked article. What are Differential Equations? …

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## Understanding Marginal Probability with Python

An essential concept of mathematics, marginal probability, will be studied in this article. Implementing it using Python and its various tools is something that we will learn. Probability and its Importance in Various Fields Talking about probability in science, business and medicine are places in which it is fundamental It supports our understanding of uncertainty …

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## Regression Error Metrics – A Simple Guide

Machine Learning is one of the fastest-growing technologies in this tech-driven area, with a load of real-world applications. Treated as a sub-branch of Artificial intelligence (AI), Machine Learning is used to mimic human thinking in machinery. How can machines think like humans? Well, more or less, we humans are responsible for making machines think like …

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