



Mastering Data Manipulation in Python: A Comprehensive Guide to Functions and Modules

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Python offers a variety of built-in data structures, including lists, tuples, and dictionaries. We'll explore how to manipulate these data structures using built-in functions and methods, as well as how to create custom data structures to suit your needs.

Defining a target

 Aquarius is one of the oldest constellations. Its name means “water bearer,” and its symbol is a representation of water.

2. Capricornus is the smallest constellation in the zodiac. Its name means “horned goat” and is represented by a goat with a fishtail.

3. Aries is one of the zodiac constellations, and its symbol represents the ram’s horns. It’s unique because its image has changed over time.

4. Cassiopeia is a constellation in the northern sky. It is easily recognizable due to its distinctive ‘W’ shape, formed by five bright stars.

Pandas
Library

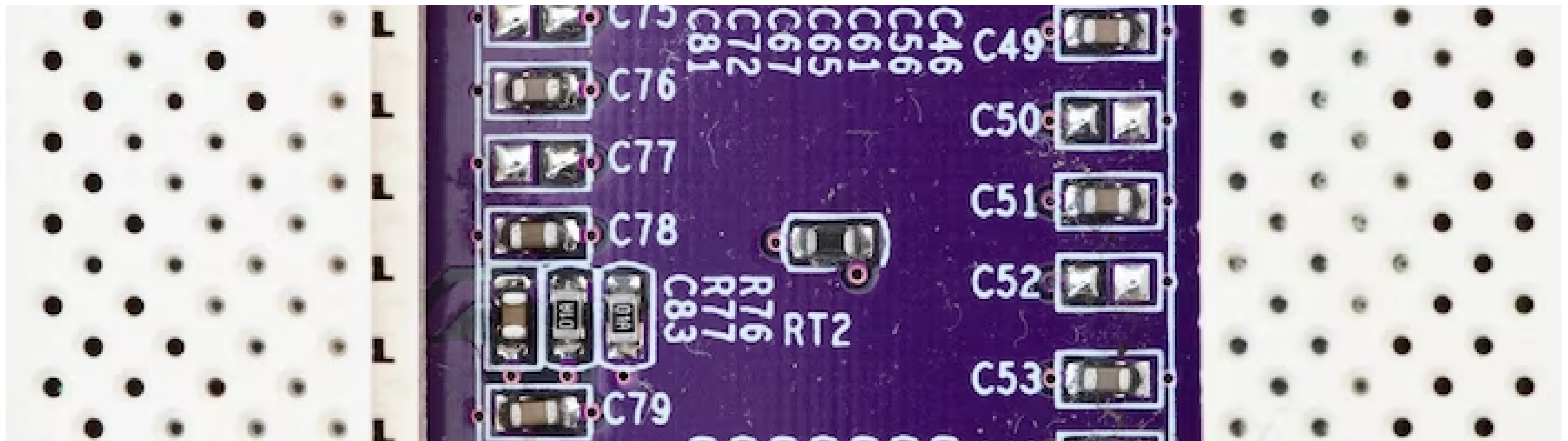
About the project

Pandas is a powerful library for data manipulation and analysis in Python. We'll cover the basics of working with Pandas data frames, including selecting, filtering, and grouping data. We'll also explore how to perform common data cleaning tasks using Pandas.



About the project

NumPy is a library for working with arrays of numerical data in Python. We'll cover the basics of creating and manipulating NumPy arrays, as well as how to perform mathematical operations on them. We'll also explore how to use NumPy for linear algebra and statistical analysis.



Defining a target

Data visualization is an important aspect of data analysis. It's essential to use the right visualization to make your data clear and easy to understand. We'll also explore how to combine data visualizations to make them more effective.

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Defining a target

Regular expressions are a powerful tool for searching with text data. They let you find patterns in text. We'll also explore how to use regular expressions for data cleaning and string validation.

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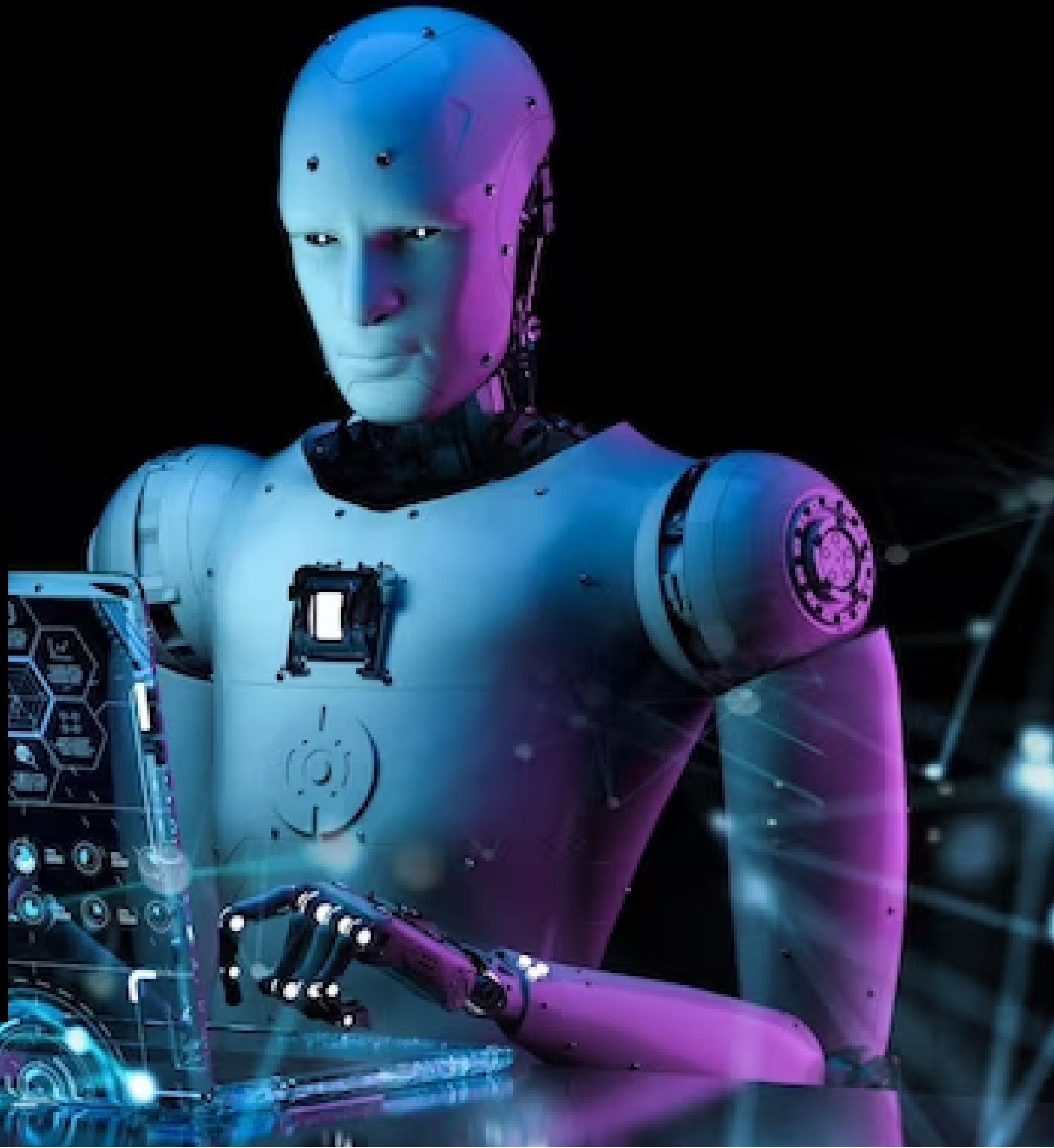
Web
Scraping

About the project

Web scraping is a technique for extracting data from websites. We'll cover how to use Python libraries like BeautifulSoup and Scrapy to scrape data from websites. We'll also explore how to handle common issues like pagination and dynamic content.



Python has become a popular language for machine learning. We'll cover the basics of machine learning in Python, including how to use libraries like scikit-learn to build and train machine learning models. We'll also explore how to evaluate and improve the performance of your models.



Conclusi
on

Where we are

In this presentation, we've covered a comprehensive guide to mastering data manipulation in Python. We've explored various functions and modules that will help you become proficient in handling and analyzing data. With the knowledge gained from this presentation, you'll be well-equipped to tackle any data-related task in Python.



Thanks!

Do you have any questions?

B. DHANISHWAR