

Machine Learning to build Intelligent Systems

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Introduction to Python



Structure of this Module

Introduction to Python Language

[illegible]

Introduction to Python

Python is an *interpreted high-level general-purpose* programming language. Python's design philosophy emphasizes code readability with its notable use of *significant indentation*. Its language constructs as well as its *object-oriented* approach aim to help programmers write clear, logical code for small and large-scale projects.



The designer of
Python, [Guido van Rossum](#), at [OSCON 2006](#)

Dynamically Typed

Garbage Collected

Community Support

Libraries

Multiple Paradigms

Libraries

Latest version 3.9

Why is Python great for Machine Learning & Data Science

Simplicity and ease of learning

Data Science Libraries

Numpy, Pandas, Scikit-Learn

Deep Learning Libraries

Tensorflow, Keras, PyTorch

Large Community of Contributors

Data Processing Support

PySpark, Hadoop

How does Python help in Machine Learning and Data Science

Data Gathering

Data Analysis

Data Transformations

Visualisations

ML/DS Modelling

Deployment and Monitoring

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**Thank You!!
Manas Dasgupta**

Happy Learning!!

