


# Data Analytics using Python (Edunet)

By: Tanmayee Inaganti  
AP22110011499

A large, dark blue, abstract shape that starts as a thin line on the left and expands into a wide, solid block on the right, resembling a stylized wave or a modern architectural element.

# What is Data Analytics

Data Analytics is the process of examining data sets in order to draw conclusions about the information it contains

Different types:

- Descriptive
- Diagnostic
- Predictive
- Prescriptive



# What is a Data Analyst?

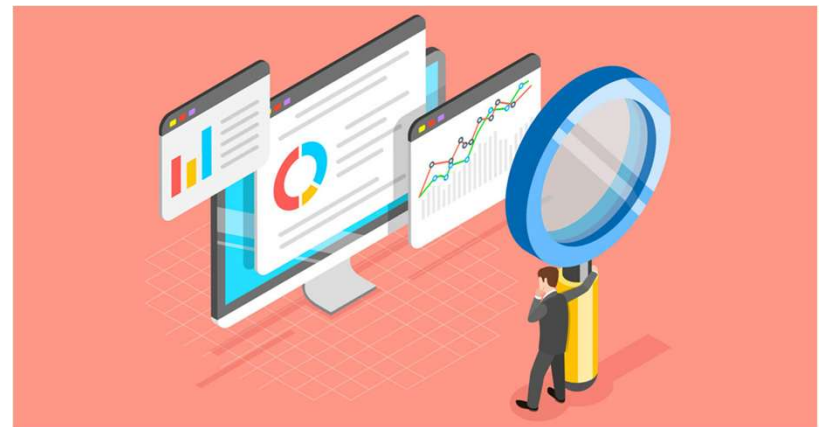
Data Analysts examine large datasets with the goal of identifying trends and patterns. Once this is done, they visualize the findings in graphs, charts and more.

Tools: Python, R, Tableau, Power BI, SAS



# Steps for analyzing data

1. Define your goal for the data
2. Collect the data
3. Clean the data
4. Analyze the data
5. Visualize the data



# Pandas in Python

Pandas



Pandas is an open-source library used for data manipulation and analysis.

It is used to clean up data, handle missing data, visualize data, and for an optimized performance

Functions:

`df.head()`: displays first 5 rows

`df.tail()`: displays last 5 rows

`df.info()`: gives more information about the dataframe

# Overall use of Data Analytics

Data Analytics helps people to understand the data and to make better decisions

DA is important for business:

- Gain greater insight into target markets
- Enhance decision making capabilities
- Create targeted strategies and marketing campaigns

