Type Of Data Analyst

1. Descriptive analysis
2. Exploratory analysis
3. Inferential analysis
4. Predictive Analysis
5. Prescriptive analysis
6. Diagnostic analysis
7. Time series analysis
8. Spatial analysis

Descriptive Analysis

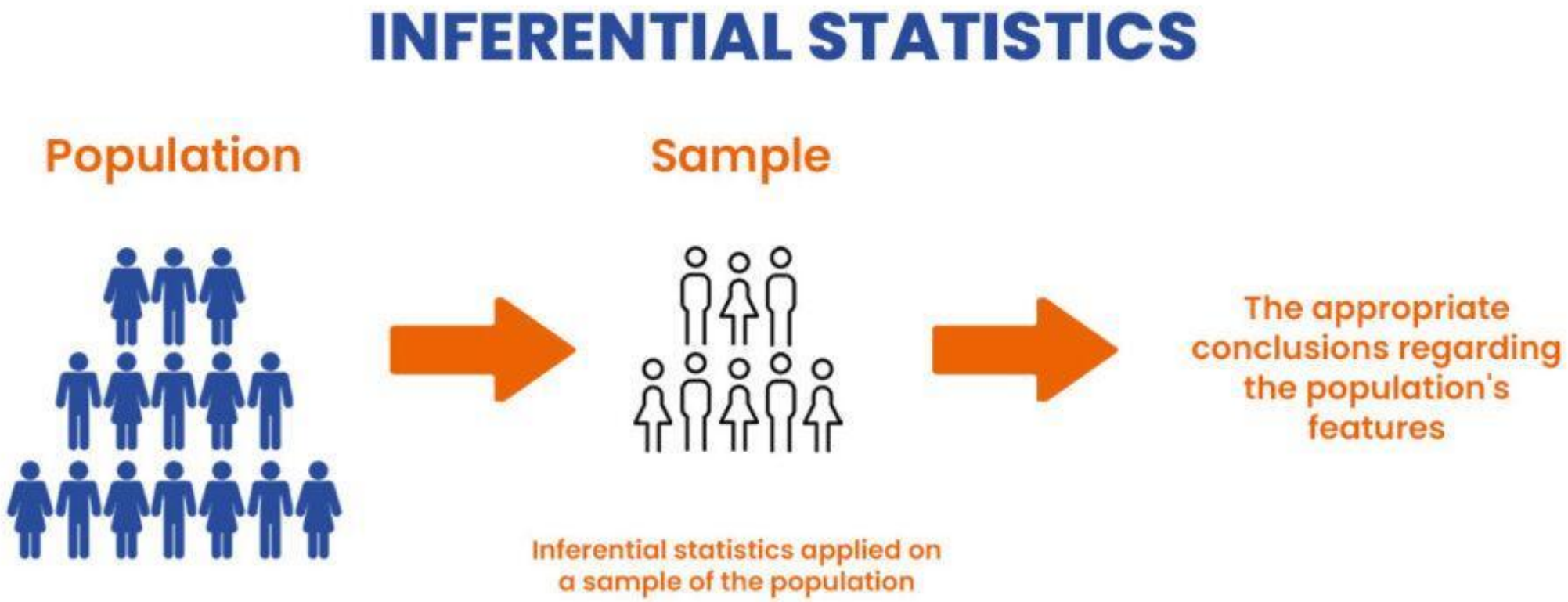
Descriptive analysis involves summarizing and presenting data to provide a clear understanding of its basic characteristics. It includes measures like mean, median, mode, and visualization methods like histograms and bar charts

Exploratory Analysis

Exploratory analysis is about discovering patterns, trends, and relationships in the data. Techniques like scatter plots, box plots, and data exploration are used to identify potential insights.

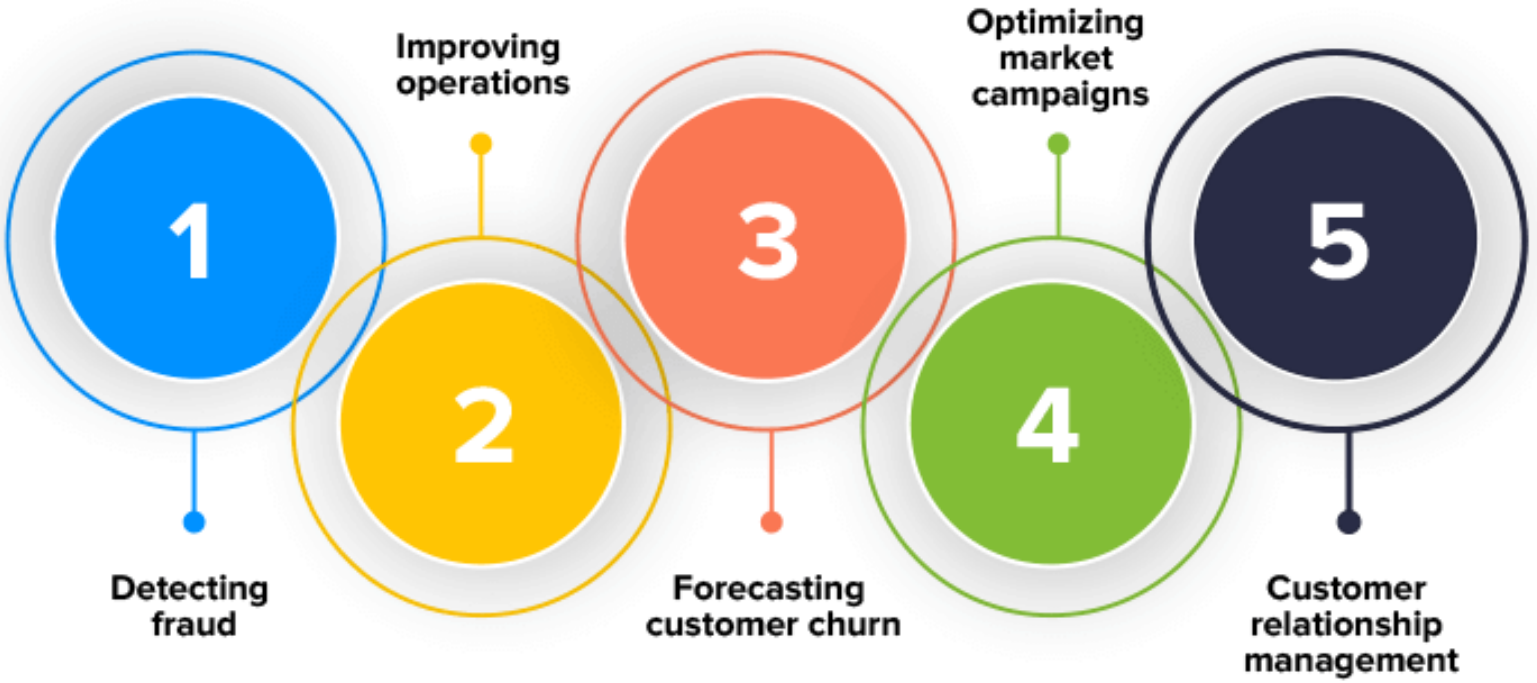
Inferential Analysis

Inferential analysis involves making predictions or inferences about a population based on a sample of data. Common methods include hypothesis testing, regression analysis, and confidence intervals.



Predictive Analysis

Predictive analysis uses historical data to build models that can make future predictions. Machine learning algorithms, such as decision trees and neural networks, are often employed in this type of analysis.



Prescriptive Analysis

Prescriptive analysis focuses on providing recommendations or solutions based on the results of other analyses. It's often used indecision support systems and optimization problems.

Diagnostic Analysis

Diagnostic analysis aims to understand the causes of specific events or outcomes. It involves digging deeper into data to identify the reasons behind certain patterns or issues.

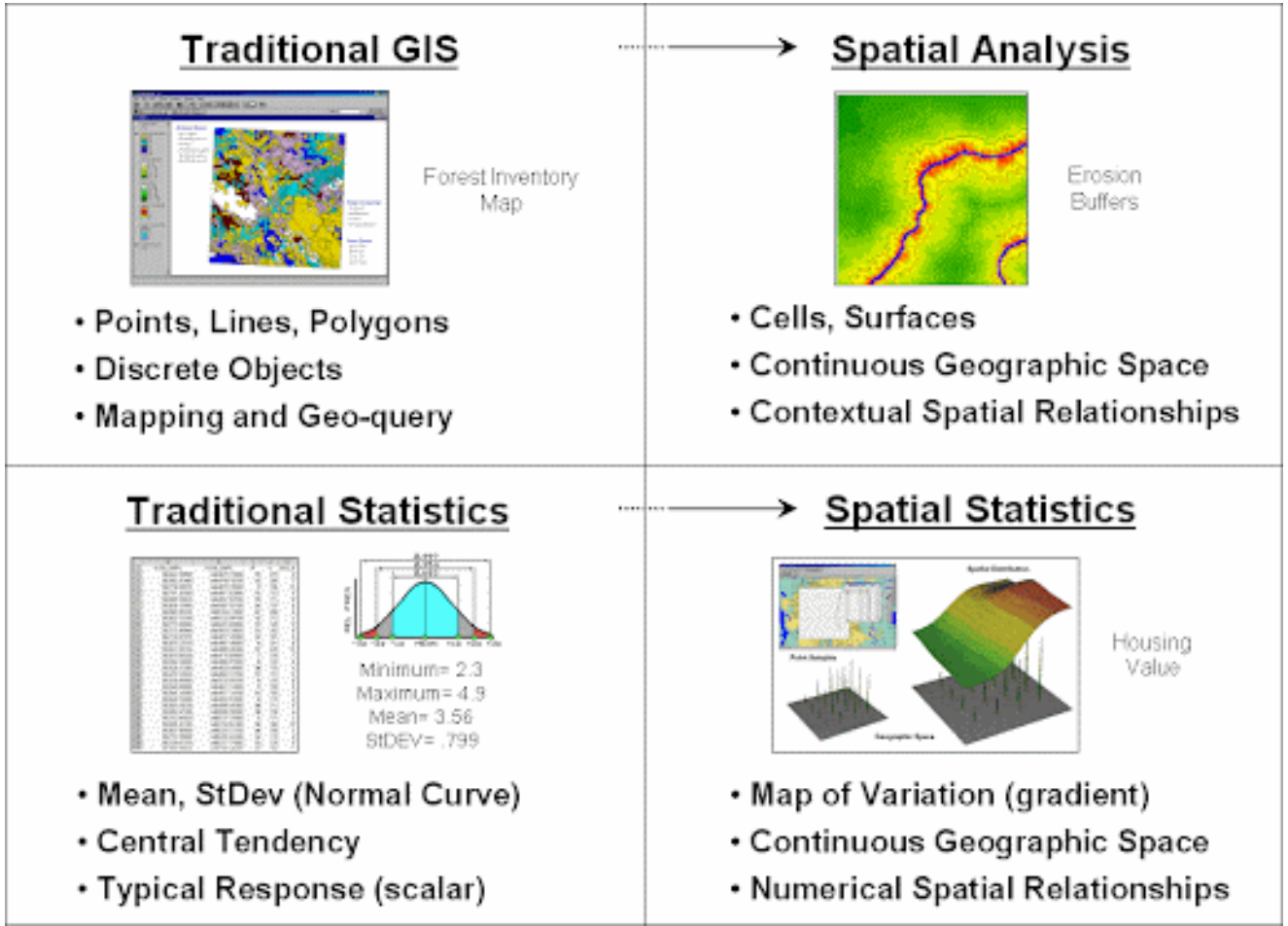
Time Series Analysis

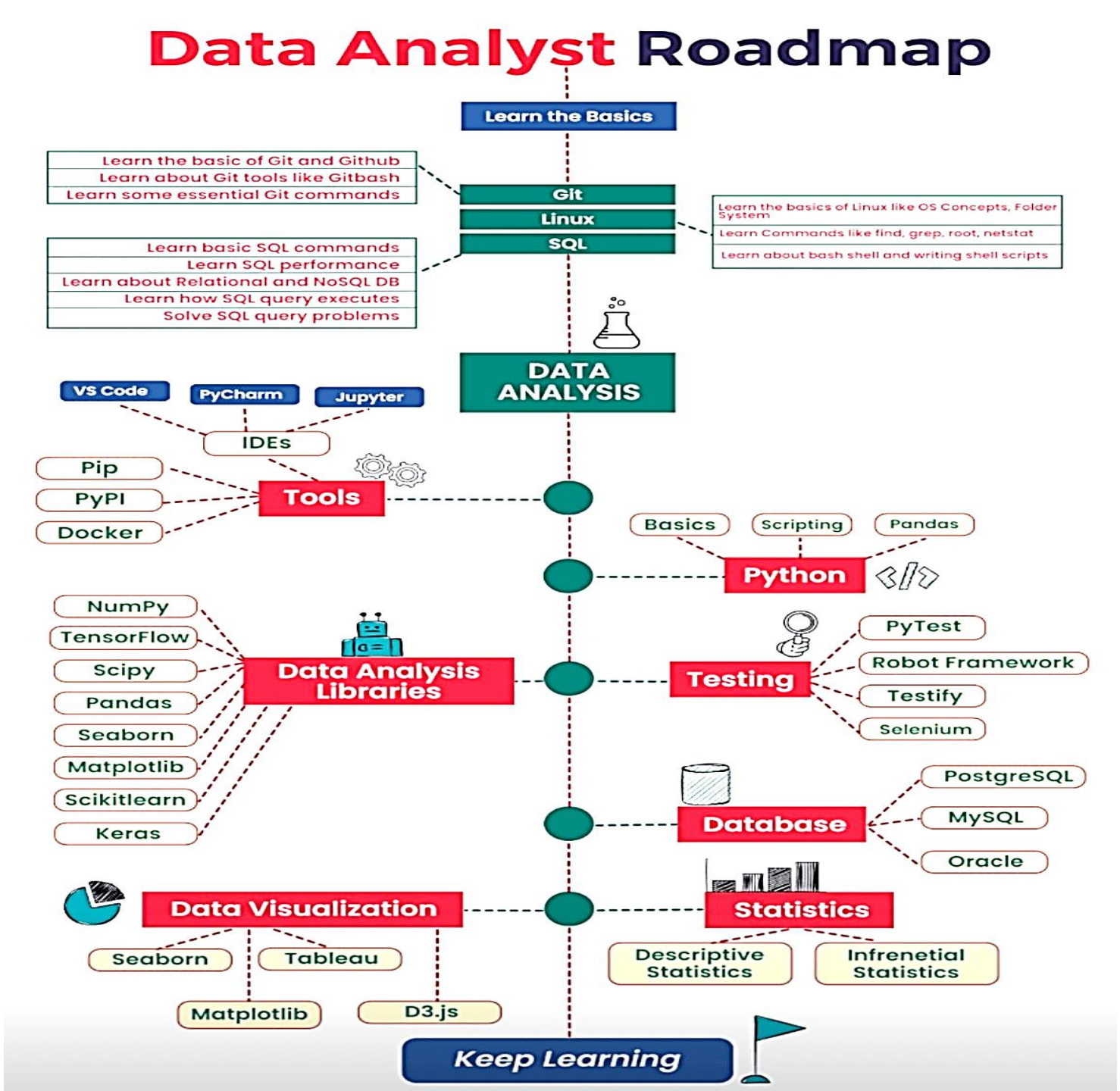
Time series analysis is used to analyze data that is collected or recorded over a sequence of time intervals. It helps identify trends, seasonal patterns, and forecasting future values

Application of Time Series Analysis

Spatial analysis

Spatial analysis focuses on geographic data and mapping. It's used for tasks like spatial interpolation, geospatial modeling, and identifying spatial patterns and trends. S




Data Analyst Roadmap
Learn the Basics
Learn the basic of Git and Github
Learn about Git tools like Gitbash
Learn some essential Git commands
Git
Linux
SQL
Learn the basics of Linux like OS Concepts, Folder System
Learn Commands like find, grep, root, netstat
Learn about bash shell and writing shell scripts
Learn basic SQL commands
Learn SQL performance
Learn about Relational and NoSQL DB
Learn how SQL query executes
Solve SQL query problems
DATA ANALYSIS
VS Code
PyCharm
Jupyter
IDEs
Pip
PyPI
Docker
Tools
Basics
Scripting
Pandas
Python
NumPy
TensorFlow
Scipy
Pandas
Seaborn
Matplotlib
Scikitlearn
Keras
Data Analysis Libraries
PyTest
Robot Framework
Testify
Selenium
Testing
PostgreSQL
MySQL
Oracle
Database
Data Visualization
Seaborn
Tableau
Matplotlib
D3.js
Statistics
Descriptive Statistics
Infrenetial Statistics
Keep Learning