

Descriptive Statistics



CADS

FUTURE PROOFING THE WORLD!

**2-days, Instructor-led Live Workshop
(Online and Physical Class Options Available)**



Gain insight from raw data using Descriptive Statistics

With the overwhelming volume of data available to organizations and businesses, Descriptive Statistics allows you to correctly transform data to information, then acquire knowledge that leads to wisdom for effective decision-making.

Add more dimensions to further understand and explain data

Descriptive Statistics enables you to use data for effective decisions and business impact. Descriptive Statistics teaches you to collect sample data, engage in exploratory data analysis, compare statistical distributions, and communicate statistical results correctly and effectively.

You will learn to collect, summarize, visualize, and explore raw data to transform it into actionable business insights.

Learning Outcome



Sample data using an appropriate sampling method.



Identify basic properties of common statistical distributions.



Describe and visualize variables and their relationships in a data sample.

Who Should Attend

Analysts and business professionals who want to see data in new ways to uncover underlying correlations and hidden insights.

AEDA



Associate Enterprise Data Analyst

informs.PEP
PROFESSIONAL EDUCATION PARTNER

PDU Approved

Descriptive Statistics is one of the modules under our Associate Enterprise Data Analyst (AEDA) program. AEDA is a seventeen-day program that provides analysts with the tools required for efficient data analysis.



12 CPD HOURS

REGISTRATION:

Register at
www.thecads.com/trainings
or email engage@thecads.com



Course Outline

Introduction to Statistics	Participants will learn the basic statistical concepts and the 5 components of Statistics. They will also be introduced to one of the components which is Exploratory data analysis.
Exploring One Categorical Variable	Participants will get to learn how to explore a single categorical variable. They will get introduced to bar charts, pie charts and frequency tables.
Exploring One Numerical variable	Participants will learn about the exploratory data analysis of one numerical variable, in this session they will learn about measure of central tendency such as mean, median, mode.
Exploring one numerical variable	Participants will be introduced to measure of dispersion and variability Range, Quartiles, Percentiles, standard deviation and Variance.
Measures of Dispersion continued	Participants will learn about interquartile range, and Tukey's method for detection of outliers.
Exploratory Data Analysis- Examining Relationships	Participants will learn about how to examine relationships between two categorical variables and relationship between one categorical and one numerical variable.
Examining relationship between 2 numerical variables	Participants will learn about how to examine relationship between two numerical variables and also in depth talk about Pearson correlation.
Statistical Distributions- Characterizing Distributions	Participants will learn about how to characterize various distributions and will be introduced to the normal distribution.
Statistical Distributions- Standard normal distribution	Participants will learn about the standard normal distribution and how to convert every normal distribution to standard normal with examples.
Skewness & Kurtosis	Participants will learn about the concepts of skewness and kurtosis and applying them in python through exercises.
Other Statistical Distributions	Participants will learn about various other type of statistical distributions such as uniform and poison distribution.
Introduction to Population and Subpopulation	Participants will learn how to select representative samples from a population. Participants will also learn how to identify different type of samplings.
Sampling methodologies	Participants will learn methods to design sampling to generate reliable statistical estimates.
Sampling Methodologies Exercises	Students will learn how to generate reliable datasets from business objects to be used for further analysis in the company.