



Python Data Analysis & Visualization

HRDC Reg No - 10001392674

HRDC Fully Claimable Training

DESIGNED FOR

Data Scientists, Business Analysts, Aspiring Data professionals,
AI engineers & ML engineers and individuals seeking to elevate their
Python data analysis skills



29, 30 - May 2024



9 AM - 5 PM



AC hotel, Marriott,
Penang, Malaysia

Master Python Data Analysis & Visualization: Unleash Insights for Informed Decision-Making

Who is this course for?


This course is designed for professionals seeking to harness the power of Python for data analysis and visualization, including data scientists, business analysts, aspiring data professionals, AI engineers, and ML engineers. Whether you're working with structured or unstructured data, this course equips you with the essential skills to extract actionable insights and drive informed decision-making.


Why you should join?


Our "Python Data Analysis & Visualization" course offers a comprehensive foundation in data science, combining computer science, statistics, and domain expertise to empower participants to extract meaningful insights from data. By mastering key data analysis concepts and techniques, you'll gain the ability to leverage data effectively to make informed business decisions, enhancing your value as a data-driven professional.


What We Offer:

With our course, we provide:

 **In-depth Learning:** Dive deep into Python programming syntax, data frames, data manipulation, and visualization techniques, guided by experienced instructors.

 **Practical Applications:** Gain hands-on experience with real-world data analysis scenarios and learn how to apply Python libraries such as NumPy, Pandas, and Matplotlib to solve complex data challenges.

 **Expert Guidance:** Receive personalized guidance and support from industry experts, ensuring a comprehensive understanding of data analysis principles and techniques.

 **Post-Training Support:** Access ongoing support and resources to reinforce your learning and continue your data analysis journey beyond the course.

Course Outline

Module 1: Basic Programming

- Jupyter as development IDE
- Programming in Python
- Python programming syntax and constructs

Module 2: Data frames & Datasets

- Inspecting Data Frames: head(), tail(), etc.
- Datatype and info()

Module 3: Data Frame Methods and Computations

- Min, Max, Sum, and Count
- Mean, Median, & Mode
- Describe With Numeric Values
- Describe With Objects (Text) Values

Module 4: Series and Columns

- Selecting A Single Column
- A Closer Look At Series
- Important Series Methods
- unique & nunique
- nlargest & nsmallest
- Selecting Multiple Columns
- The powerful value_counts() method
- Using plot() to visualize
- Adding / Removing Columns

Module 5: Organizing Data and Working With Dates/Times

- Indexing / Creating a MultiIndex
- Sorting
- Filtering DataFrames
- Condition Operators - AND / OR
- Dates and DataFrame
- Date Math & TimeDeltas

 **Duration : 2 Days**

Course Outline

Module 6: Python for Data Analysis with NumPy

- Numpy and usage in Data Analysis
- Numpy Arrays
- Numpy Array indexing
- Numpy Operations

Module 7: Python for Data Analysis – Panda

- Panda and usage in Data Analysis
- DataFrames
- Analyze Missing Data
- Merging, Joining and Concatenating raw data
- Operations
- Data Input and Output

Module 8: Data Visualization with Matplotlib

- Importing data into Matplotlib
- Matplotlib in Visualizing data
- Additional tool for Visualization – Seaborn
- Plotting graphs
- Enhance the look of Visuals
- Apply, Map & Applymap

Module 9: Working With Text

- The String Datatype Vs. Object Datatype
- Indexing String Series With []
- Text related functions

Module 10: Combining Series & DataFrames





- Concatenating Series
- Concatenating Series By Index
- Inner vs. Outer Joins
- Concatenating DataFrames By Index

Module 11: Intro to Seaborn






- Seaborn Scatterplots
- Seaborn Lineplots
- Seaborn Histograms
- Seaboard Categorical Plots

By the end of this course!

You will gain:

-  **Proficiency** in Python programming for data analysis, including data manipulation, visualization, and statistical analysis.
-  **Ability** to work with data frames, organize data, and perform advanced computations using NumPy and Pandas.
-  **Skills** to create insightful visualizations using Matplotlib and Seaborn, enhancing your ability to communicate data-driven insights effectively.
-  **Confidence** to tackle real-world data analysis projects and make data-driven decisions that drive business success.

If you struggle with:

-  Python data analysis and visualization
-  Data organization and manipulation
-  Visual communication of insights
-  Keeping up with data science evolution
-  Applying theory to real-world scenarios

Implementing our Python Data Analysis & Visualization course will lead to:

- ✓ Enhanced analysis skills and confidence
- ✓ Improved efficiency in data tasks
- ✓ Better visual communication
- ✓ Continued growth in data science
- ✓ Career advancement in data-driven roles

Timmins Training Consulting

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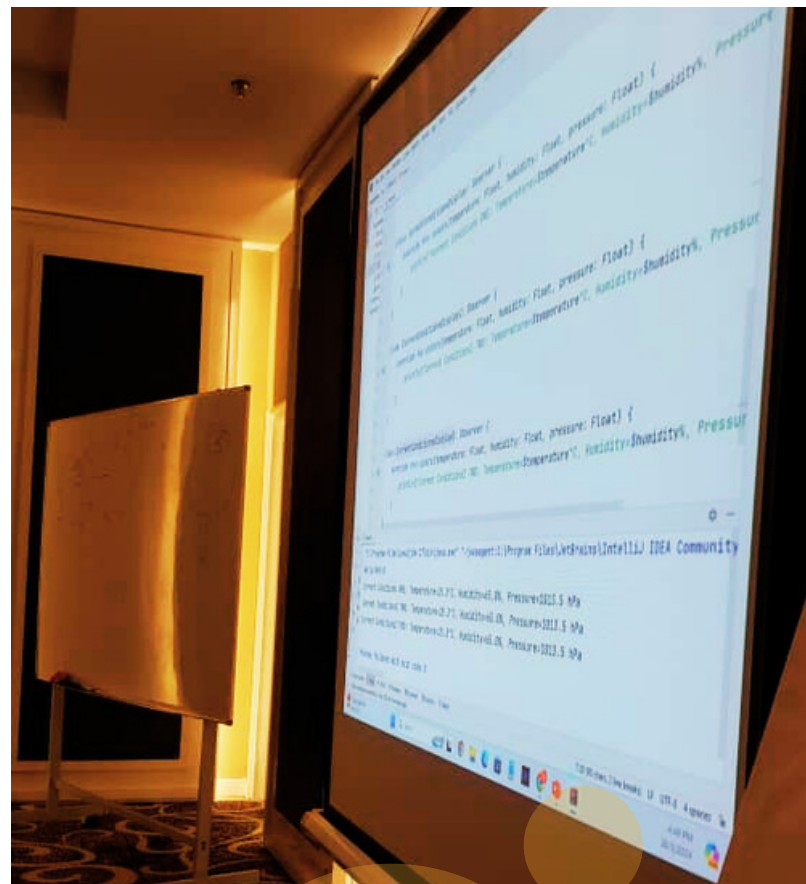
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