



CERTIFIED

PYTHON PROGRAM

*Detailed Course
Syllabus*

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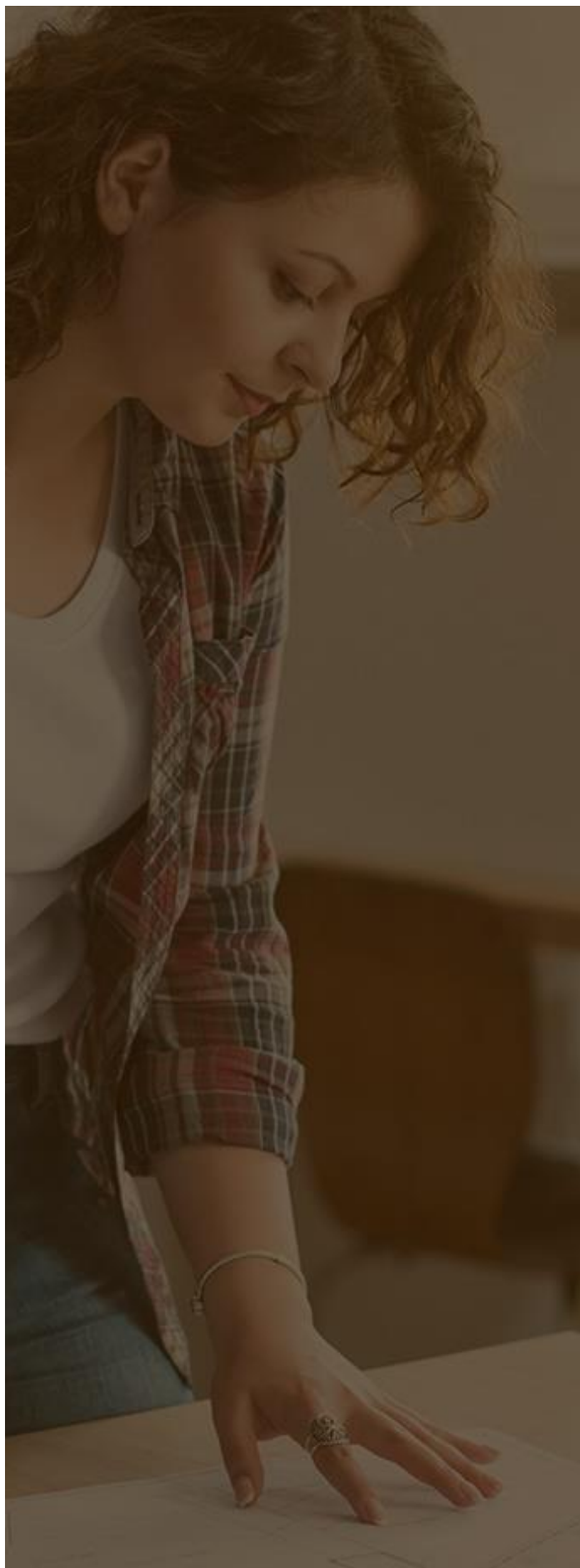


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PYTHON - 25 LESSONS

1. Python – Introduction
2. Install Python on Windows
3. Python – Variables
4. Python – Scope of Variables
5. Python – Tokens
6. Python – Operators
7. Python – Comments
8. Python – Type Conversion
9. Python – Get User Input
10. Python – Decision Making Statements
11. Python – break and continue statements
12. Python – Loops
13. Python – Numbers
14. Python – Strings
15. Python – Functions
16. Python – Lambda Functions
17. Python – Classes and Objects
18. Python – Tuples
19. Python – Dictionary

20. Python – Lists

21. Python – Sets

22. Python – Modules

23. Python – math module

24. Python – statistics module

25. Python – Random Module

NUMPY - 24 LESSONS

Learn Numerical Analysis and Scientific Computing with the NumPy Python Library

1. NumPy Introduction
2. Install NumPy (Set Environment)
3. Create NumPy arrays
4. Dimensions in NumPy Arrays
5. Initialize NumPy Arrays
6. Datatypes in NumPy
7. NumPy Array Indexing
8. NumPy Array Slicing
9. NumPy Array Shape
10. Reshape a NumPy array
11. Iterate NumPy Arrays
12. Joining NumPy Arrays
13. Split NumPy Array
14. Search an Array for a value
15. Sorting NumPy Arrays
16. Axes in NumPy arrays
17. Intersection of NumPy Arrays
18. Difference between NumPy arrays

19. Arithmetic Operations on NumPy arrays

20. Scalar Operations on NumPy Arrays

21. Statistical Operations on NumPy arrays

22. Random module in NumPy

23. NumPy Logs

24. NumPy LCM and HCF

PANDAS - 27 LESSONS

Learn Data Manipulation and Analysis with the Pandas Python Library

1. Pandas – Introduction & Features
2. Install & Setup Pandas
3. Create a Pandas DataFrame (Run first program)
4. Pandas DataFrames – Attributes & Methods
5. Join Pandas DataFrame
6. Concatenate Pandas DataFrames
7. Create a Pandas Series
8. Pandas Series – Attributes & Methods
9. Combine two Pandas series
10. Categorical Data in Pandas
11. Working with Categories in Pandas
12. Read CSV in Pandas
13. Read Excel in Pandas
14. Indexing in Pandas
15. Select multiple columns in Pandas
16. Add a new column in Pandas
17. Delete rows/ columns in Pandas
18. Iterate over rows and columns in Pandas
19. Sorting in Pandas

- 20.** Handle Duplicates in Pandas
- 21.** Clean the Data in Pandas
- 22.** String Operations in Pandas
- 23.** Date Time Operations in Pandas
- 24.** Remove Whitespace in Pandas
- 25.** Group the Data in Pandas
- 26.** Statistical Functions in Pandas
- 27.** Plot a DataFrame in Pandas

MATPLOTLIB - 16 LESSONS

Learn Data Visualization with the Matplotlib Python Library

1. Matplotlib - Introduction
2. Install Matplotlib on Windows
3. PyPlot Submodule & Run First Program
4. Plot a line with DataFrame
5. Add Grid Lines
6. Add Labels to a Plot
7. Plot Titles and Position them
8. Add a Matplotlib Legend in a Graph
9. Position Matplotlib Legends
10. Change the background color
11. Change the font size
12. Matplotlib - Bar Graph
13. Matplotlib - Pie Chart
14. Matplotlib - Line Graph
15. Matplotlib - Histogram
16. Matplotlib - Scatter Plot

CODES AND CAPSTONE PROJECTS

The course will cover over 300+ coding examples to explain the concepts.

With that, we will also work on some capstone projects.

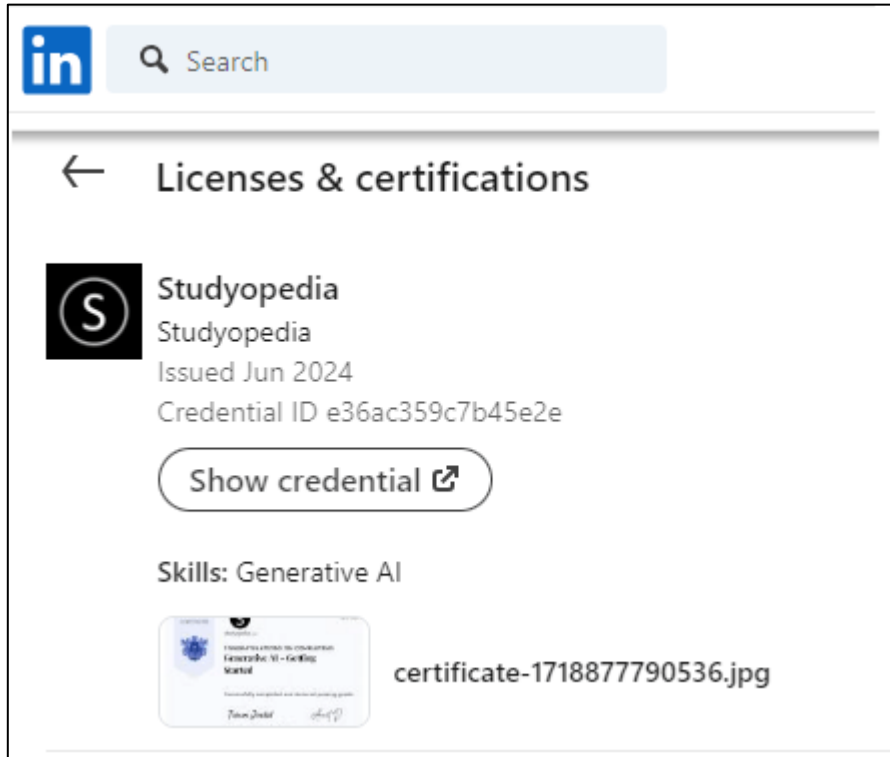
CERTIFICATE OF COMPLETION

The students will get a Certification of Completion with a QR Code verification and credentials ID after completing the course.

SAMPLE CERTIFICATE



ADD THE CERTIFICATE ON LINKEDIN EASILY



OTHER DETAILS

Email-id:

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Live Classes (60 Hours)

- Weekdays: 1 hour daily
- Weekends: 2 hours each on Saturday and Sunday

Price

One-to-One teaching:

700 Rs. Per Hour (**Total:** 42,000 INR)