

Summer Training Report

Course Title:

Data Structures and Algorithm using Python

Name:

Tenzin Lungrig

Training Duration:

10th June 2025 – 28th July 2025 (Around 35+ hours)

Conducted By:

CSE Pathshala

Introduction

During the summer break of 2025, I enrolled in an online training program called “**Data Structures and Algorithm using Python**”, organized by **CSE Pathshala**. The classes were conducted live for about **two hours every evening**, which made it easy to follow along and stay consistent with my learning routine.

I joined this course to strengthen my understanding of data structures and algorithms — two of the most essential areas in computer science — and to learn how to apply them efficiently using Python.

About the Course

The training was very well structured and started with the basics of Python programming and algorithm analysis before moving into more advanced topics. Some of the key areas we covered included:

- Lists, arrays, and strings
- Stacks, queues, and linked lists
- Trees and binary search trees
- Graphs and traversal algorithms
- Sorting and searching methods
- Recursion and dynamic programming
- Understanding time and space complexity

Each session included both theory and practical examples, so I could immediately apply what I learned by writing Python code. I especially liked how the instructor explained the logic behind each algorithm — it made complex topics feel easier to grasp.

Learning Experience

The sessions were interactive and engaging. Even though it was an online program, I never felt disconnected — the instructor encouraged questions, and we often discussed how different data structures could be used in real-world applications.

Studying in the evenings turned out to be perfect, as it helped me stay consistent without disturbing my daily schedule. Over time, I noticed a clear improvement in how I approached coding problems — my logic became more structured, and I started to think about efficiency before jumping into writing code.

Assessment and Outcome

Towards the end of the training, we had a final test that covered everything taught during the course. The test went well, and I was able to confidently solve both the theoretical and coding parts. Successfully completing the course and receiving the certificate felt rewarding, as it reflected my effort and growth during the summer.

Conclusion

Overall, this summer training was a valuable experience for me. It not only deepened my understanding of data structures and algorithms but also helped me become more confident in writing and analyzing Python programs. The course gave me a clearer idea of how algorithms shape efficient software and strengthened my interest in programming.

I'm genuinely thankful to **CSE Pathshala** and the instructor for conducting such a practical and insightful program that made my summer both productive and enjoyable.



CERTIFICATE OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

TENZIN LUNGRIG

For successful completion of an online 35+ hours Live Summer Training on "**Data Structures and Algorithm using Python**" which was held in between 10th June 2025 to 28th July 2025. The candidate has met the attendance requirements and has performed satisfactorily in all assigned tasks, and final test.

Unraveling Tomorrow's Technology

5TH AUG 2025

ISSUE DATE

CSE PATHSHALA

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CERTIFICATE NO.

FOR VERIFICATION, SEND THE CERTIFICATE NUMBER AT [SUPPORT@csepathshala.com](mailto:support@csepathshala.com)