



3 Courses

Algorithms for Searching,  
Sorting, and Indexing

Trees and Graphs: Basics

Dynamic Programming,  
Greedy Algorithms



University  
of Colorado  
Boulder

Nov 26, 2022

**SANDIPAN DEY**

has successfully completed the online, non-credit Specialization

# Data Science Foundations: Data Structures and Algorithms

Building fast and highly performant data science applications requires an intimate knowledge of how data can be organized in a computer and how to efficiently perform operations such as sorting, searching, and indexing. This specialization guides learners through the fundamentals of data structures and algorithms with a focus on data science applications. It is targeted towards learners who are broadly interested in programming applications that process large amounts of data (expertise in data science is not required), and are familiar with the basics of programming in python.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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