

*This is to certify that*

**Sudhamshu B N**

*has successfully completed*

**NOC: Programming, Data Structures and Algorithms**

*online course offered by NPTEL*

SHUf h8 UHY: '08' May 2020 'p' '9 bX' 8 UHY. 14 May 2020

**Topics:**

- Basic Programming Constructs ■ Arrays, Pointers and Strings ■ Functions and Program Running Time
- Fast Arithmetic, Searching and Sorting ■ Basic Data Structures ■ Stacks, Queues, Trees, Heaps, Graphs
- Greedy Algorithms and Dynamic programming ■ Dijkstra's Algorithm ■ String Matching, Organizing your Programs



Cert. ID.: 73050-7344023-1016  
Dated: 14 May 2020

Head - Learning,  
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