This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

Roll No: NPTEL19CS40S21182408

TO
A R SUDARSHAN
NEW NO. 55 FLAT 2/3
KARPAGAM APARTMENTS
FIRST MAIN ROAD R.A. PURAM
CHENNAI
TAMIL NADU
600028
PH. NO:8610363948



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to



for successfully completing the course



Programming, Data Structures and Algorithms Using Python

with a consolidated score of 80 %

Online Assignments | 25/25 | Programming Exam | 22/25 | Proctored Exam | 32.5/50

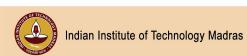
Total number of candidates certified in this course: 2779

Prof Devendra Jalihal

Prof. Devendra JalihalChairman
Centre for Continuing Education, IITM

Roll No: NPTEL19CS40S21182408

Jul-Sep 2019 (8 week course) Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras





To validate and check scores: https://nptel.ac.in/noc