

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: NPTEL20CS26S1366677

To  
VINAY VITTHAL DONGARE  
VITTHAL JAGANNATH DONGAREPO LONI DEOKAR,  
TAL INDAPURPUNE ,PINCODE 413132  
IONI DEOKAR,INDAPUR  
PUNE  
MAHARASHTRA - 413132  
PH. NO :7972532236



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.



# NPTEL Online Certification

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



This certificate is awarded to

**VINAY VITTHAL DONGARE**

for passing the course

**Programming, Data Structures and Algorithms using Python**

with Score\* 100 %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jan-Mar 2020  
(8 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



\*Continuous online assessment score

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