

Course list



(<https://elearn.nptel.ac.in/wp-content/uploads/2021/10/Artboard-1-copy-7.jpg?v=c86ee0d9d7ed>)

Python for Data Science

★★★★★ (8 customer reviews)

₹1,000.00

Prof. Raghunathan  
Rengaswamy  
IIT Madras

**\*Additional GST and optional Exam fee are applicable.**

Add to cart

SKU: IIT Madras Category: NPTEL self paced courses  
(<https://elearn.nptel.ac.in/product-category/nptel/?v=c86ee0d9d7ed>)

Search

Search products...

| Description    | Additional information | Certification Process |
|----------------|------------------------|-----------------------|
| Course Details | Reviews (8)            |                       |



## Course Details

### Week 1:

#### **BASICS OF PYTHON SPYDER (TOOL)**

- Introduction Spyder
- Setting working Directory
- Creating and saving a script file
- File execution, clearing console, removing variables from environment, clearing environment
- Commenting script files
- Variable creation
- Arithmetic and logical operators
- Data types and associated operations

### Week 2:

#### **Sequence data types and associated operations**

- Strings
- Lists
- Arrays
- Tuples
- Dictionary
- Sets
- Range

NumPy and Array

### Week 3:

- **Pandas dataframe and dataframe related operations on Toyota**

#### **Corolla dataset**

Reading files

Exploratory data analysis

Data preparation and preprocessing

- **Data visualization on Toyota Corolla dataset using matplotlib and seaborn libraries**

Scatter plot

Line plot

Bar plot

Histogram

Box plot

Pair plot

- **Control structures using Toyota Corolla dataset**



if-else family

for loop

for loop with if break

while loop

•**Functions**

#### **Week 4: CASE STUDY**

•**Regression**

Predicting price of pre-owned cars

•**Classification**

Classifying personal income



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: NPTEL19CS59S41231387

To:  
PATTATHARASUS  
4/72 KOLLUPALAYAM  
THIPPAMPATTI  
COIMBATORE  
TAMIL NADU  
642107  
PH. NO :8883615650



No. of credits recommended by NPTEL:1

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

| Score | Type of Certificate    |
|-------|------------------------|
| >=90  | Elite+Gold             |
| 75-89 | Elite+Silver           |
| >=80  | Elite                  |
| 40-59 | Successfully Completed |
| <40   | No Certificate         |



## NPTEL Online Certification

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



This certificate is awarded to

**PATTATHARASUS**  
for successfully completing the course  
**Python for Data Science**

with a consolidated score of **50** %

|                    |          |                  |          |                |          |
|--------------------|----------|------------------|----------|----------------|----------|
| Online Assignments | 19.75/25 | Programming Exam | 16.75/25 | Proctored Exam | 13.78/50 |
|--------------------|----------|------------------|----------|----------------|----------|

Total number of candidates certified in this course: **4426**

*Devendra Jalihal*

Prof. Devendra Jalihal  
Chairman  
Centre for Continuing Education, IITM

Aug-Sep 2019  
(4 week course)

*Prof. Andrew Thangaraj*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL19CS59S41231387

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

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: NPTEL19CS59S41231391

To: MANIKANDAN.P  
9/1A KUMARAN STREET, KUPPAMBALAYAM  
SANKARAMANALLUR  
TIRUPPUR  
TAMIL NADU  
642204  
PH. NO :7994959164



| Score | Type of Certificate    |
|-------|------------------------|
| >=90  | Elite+Gold             |
| 75-89 | Elite+Silver           |
| >=80  | Elite                  |
| 40-59 | Successfully Completed |
| <40   | No Certificate         |

No. of credits recommended by NPTEL:1

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

**MANIKANDAN.P**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **53** %

|                    |          |                  |       |                |          |
|--------------------|----------|------------------|-------|----------------|----------|
| Online Assignments | 19.75/25 | Programming Exam | 15/25 | Proctored Exam | 18.37/50 |
|--------------------|----------|------------------|-------|----------------|----------|

Total number of candidates certified in this course: **4426**

*Devendra Jalihal*

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

**Aug-Sep 2019**  
(4 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS59S41231391

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

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: NPTEL19CS59S41231315

To: M.BAVIPRIYA  
3/4,PALANIYANDIPUDUR,VELLALAPALAYAMPOI,  
POLLACHI  
COIMBATORE  
TAMIL NADU  
642002  
PH. NO :9696168805



| Score | Type of Certificate    |
|-------|------------------------|
| >=90  | Elite+Gold             |
| 75-89 | Elite+Silver           |
| >=80  | Elite                  |
| 40-59 | Successfully Completed |
| <40   | No Certificate         |

No. of credits recommended by NPTEL:1

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

**M.BAVIPRIYA**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **55** %

|                    |          |                  |       |                |         |
|--------------------|----------|------------------|-------|----------------|---------|
| Online Assignments | 19.75/25 | Programming Exam | 15/25 | Proctored Exam | 19.9/50 |
|--------------------|----------|------------------|-------|----------------|---------|

Total number of candidates certified in this course: **4426**

*Devendra Jalihal*

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

**Aug-Sep 2019**  
(4 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS59S41231315

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

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: NPTEL19CS59S41231317

To  
 VARSHA.M  
 2/72, SOUTH STREET, CHITHAREVU,  
 KAVALAPATTI(PO), PALANI(TK),  
 PALANI  
 DINDIGUL,  
 TAMIL NADU  
 624621  
 PIN NO -8825633380



| Score | Type of Certificate    |
|-------|------------------------|
| >=90  | Elite+Gold             |
| 75-89 | Elite+Silver           |
| >=80  | Elite                  |
| 40-59 | Successfully Completed |
| <40   | No Certificate         |

No. of credits recommended by NPTEL:1

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

**VARSHA.M**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **54** %

|                    |          |                  |       |                |          |
|--------------------|----------|------------------|-------|----------------|----------|
| Online Assignments | 19.75/25 | Programming Exam | 15/25 | Proctored Exam | 19.39/50 |
|--------------------|----------|------------------|-------|----------------|----------|

Total number of candidates certified in this course: **4426**

*Devendra Jalihal*

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

**Aug-Sep 2019**  
 (4 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS59S41231317

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

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: NPTEL19CS59S41231327

To,  
M.NITHYA  
49,MGR NAGAR,JOTHI NAGAR  
POLLACHI  
COIMBATORE  
TAMIL NADU  
642001  
PH. NO :380268029



| Score | Type of Certificate    |
|-------|------------------------|
| >=90  | Elite+Gold             |
| 75-89 | Elite+Silver           |
| >=80  | Elite                  |
| 40-59 | Successfully Completed |
| <40   | No Certificate         |

No. of credits recommended by NPTEL:1

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

**M.NITHYA**

for successfully completing the course

**Python for Data Science**

with a consolidated score of **56** %

|                    |         |                  |       |                |          |
|--------------------|---------|------------------|-------|----------------|----------|
| Online Assignments | 19.5/25 | Programming Exam | 15/25 | Proctored Exam | 21.94/50 |
|--------------------|---------|------------------|-------|----------------|----------|

Total number of candidates certified in this course: **4426**

*Devendra Jalihal*

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

**Aug-Sep 2019**  
(4 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS59S41231327

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