Certificate Course On Python For DATA Science

Faculty Coordinator: Sri.A.Valli Basha

Sri.P.Krishna Teja

Duration:- 12/12/2020 to 27/12/2020



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Kadapa, Andhra Pradesh, India - 516003

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Lr./KSRMCE/ (Department of ECE)/2020-21

Date: 06/12/2020

To The Principal KSRM College of Engineering Kadapa, AP.

Sub: KSRMCE - (Department of ECE) - Permission to conduct certification course on Python for Data Science -Request- Reg.

___***___

Respected Sir,

With reference to the cited, the Department of ECE is planning to conduct a certification course on Python for Data Science for B.Tech III sem ECE students from 12.12.2020 to 27.12.2020 in online mode. In this regard, we kindly request you to grant permission to conduct certification course. This is submitted for your kind perusal.

Thanking you sir,

Yours Faithfully,

A. V. Bharle Coordinators, Sri A. Valli Basha

Sri P. Krishna Teja

forwarded to the

Cc:

To The Director for Information

To All Deans/HODs

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Dated: 06/12/2020

Circular

All the B.Tech III sem ECE students are hereby informed that department of ECE is going to conduct 30 hours certification course on Python for Data Science from 12/12/2020 to 27/12/2020. Interested students may register their names with following link on or before 10/12/2020.

Registration Link: https://forms.gle/C954qihfoJCVTgiZ7

For any queries contact,

Coordinator

Sri A. Valli Basha

Sri P. Krishna Teja

ECE Dept.,

V. S.S. MW/5 Principal PRINCIPAL K.S.R.M. COLLEGE OF ENGINEERING KADAPA - 516 003. (A.P.)

c to:

The Management /Director / All Deans / All HODS/Staff / Students for information

The IQAC Cell for Documentation



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Department of Electronics & Communication Engineering

Certificate Course on Python for Data Science Registered Student List

S.No.	Roll Number	Name of the Student	Year & Branch	
1	199Y1A0401		B. Tech. III sem	Email address
	1991170401	AKULA VENKATESH	ECE ECE. III sem	199Y1A0401@ksrmce.a
2	199Y1A0402	A I (D A D)	B. Tech. III sem	in
	13311A0402	MOULEESWARA REDDY	ECE ECE. III sem	199Y1A0402@ksrmce.
3	199Y1A0403	ANIOATATA		in
	19911A0403	SREE	B. Tech. III sem	199Y1A0403@ksrmce.
4	100371 4 0 407	AYYALURI VENKATA	ECE	in
	199Y1A0407	PAVAN KUMAR REDDY	B. Tech. III sem	199Y1A0407@ksrmce.a
5	100771	BALASAMUDDAM ATAX	ECE	in
	199Y1A0408	BALASAMUDRAM AJAY KUMAR		199Y1A408@ksrmce.ac
5	1000	KOWAK	ECE	n
	199Y1A0409	DANIDI GALDALA	B. Tech. III sem	199Y1A0409@ksrmce.a
7		BANDI SAI BALAJI	ECE	in
	199Y1A0411	BANDISEELA	B. Tech. III sem	
}		UDAYKUMAR	ECE	199Y1A0411ksrmce.ac.i
	199Y1A0412	BARIVENKULA	B. Tech. III sem	199Y1A0412@ksrmce.a
)		SREENATH	ECE	The state of the s
,	199Y1A0413	BINGIMALLA VENKATA	B. Tech. III sem	100V1A0412@1-
0		THARUN KUMAR	ECE	199Y1A0413@ksrmce.ac
0	199Y1A0414	BOKKASAM SAI	B. Tech. III sem	
		DEEPAK	ECE ECE	199Y1A0414@ksrmce.ac
1	199Y1A0415	BOOSI VENKATA	B. Tech. III sem	in
	19911110413	SAINATH REDDY	ECE	199Y1A0415@ksrmce.ac
2	199Y1A0417		B. Tech. III sem	<u>in</u>
	17711AU41/	C JASHWANTH VARMA	ECE ECE. III sem	199Y1A0417@ksrmce.ac
3	100V1 4 0 4 1 0	CHAGANTI TEJESH		in
	199Y1A0418	KUMAR REDDY	B. Tech. III sem ECE	199Y1A0418@ksrmce.ac.
4	1003/140410	CHALLA STEPHEN		<u>in</u>
	199Y1A0419	KUMAR	B. Tech. III sem	199Y1A0419@ksrmce.ac.
5	100771 + 0 + 0		ECE	<u>in</u>
	199Y1A0420		B. Tech. III sem	199Y1A0420@ksrmce.ac.
5	199Y1A0421	CITATIVA CATE	ECE	in
	17711110721	CHAVVA SAI SUSMITHA	B. Tech. III sem	199Y1A0421@ksrmce.ac.

17		(W)	ECE	
17	199Y1A042	CHEEPATI	B. Tech. III sem	in
	1991111042	VARAPRASAD REDDY	ECE ECE. III sem	199Y1A0422@ksrmce.a
18	199Y1A042	CITED DI	B. Tech. III sem	in
	13311A042.	DEEKSHITH	ECE ECE. III sem	100-
19	1007/14042			199Y1A0423ksrmce.ac.
	199Y1A042	CHEPPALI ANKAIAH	B. Tech. III sem	199Y1A0424@ksrmce.a
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	199Y1A0425	PRAKASH REDDY	B. Tech. III sem	199Y1A0425@ksrmce.ae
21	100771	CUIDDIATE	ECE	in
	199Y1A0427	DHEERAJ	B. Tech. III sem	199Y1A0427@ksrmce.a
22			ECE	in
	199Y1A0428	CHINNAULA SANDEEP	B. Tech. III sem	199Y1A0428@ksrmce.a
23		REDDY	ECE	
23	199Y1A0430	CHINTAKUNTA VEERA	B. Tech. III sem	100V1 4 0420 C1
24		SIVA	ECE ECE	199Y1A0430@ksrmce.ac
24	199Y1A0431	CHINTHALAPALLI	B. Tech. III sem	100X/1 + 0 101
	1771170431	MADHURIMA (W)	ECE ECE. III sem	199Y1A0431@ksrmce.ac
25	1007/140422			in
	199Y1A0432	DANDE MOUNIKA (W)	B. Tech. III sem	199Y1A0432@ksrmce.ac
26	10077	DERANGULA SAI	ECE	in
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27			ECE	in
	199Y1A0436	DEVARASETTY	B. Tech. III sem	199Y1A0436@ksrmce.ac
28		HARIPRIYA (W)	ECE	
20	199Y1A0437	DINNEPU VIKAS	B. Tech. III sem	100V1A042701
20		BHARADWAJ REDDY	ECE	199Y1A0437@ksrmce.ac
29	199Y1A0440		B. Tech. III sem	<u>in</u>
		GADDA UPENDRA	ECE ECE	199Y1A0440@ksrmce.ac
30	199Y1A0441		B. Tech. III sem	in
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31	1003/140440	GAJJALA NAVYA		in
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2	100771	1201 ISIGE (W)	ECE	in
	199Y1A0443	GAMDA CIVA IXIDA	B. Tech. III sem	199Y1A0443@ksrmce.ac.
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4		SWARNALATHA (W)	ECE	in
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-		PRAVALLIKA (W)	ECE	199Y1A0446@ksrmce.ac.
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7			D 70 1	<u>in</u>
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40	199Y1A045	GULYAM SHARATH	B. Tech. III sem ECE	199Y1A0452@ksrmce.ac.
	199Y1A045	6 JANGAMSETTY IIINOD	B. Tech. III sem ECE	199Y1A0456@ksrmce.ac.
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43	199Y1A0461	KAKARLA SAGAR	ECE B. Tech. III sem	in
44		KAKE SAIBHARATH	ECE	199Y1A0461@ksrmce.ac. in
45	199Y1A0463	(W)	B. Tech. III sem ECE	199Y1A0463@ksrmce.ac.
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46	199Y1A0468	KAYAM VINAY	B. Tech. III sem	<u>in</u> 199Y1A0468@ksrmce.ac.
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10	19911A04/3	EESHITHA RACHANA RAVINDRA (W)	ECE	199Y1A0473@ksrmce.ac.
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52	199Y1A0485	KURUVA SAI PRAKASH KUTEDDULA	ECE	in
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55	199Y1A04E4	SHAIK MOHAMMED YASEEN	B. Tech. III sem	<u>in</u> 199Y1A04E4@ksrmce.ac.
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8		SHAIK MUSAB AHAMED SHAIK RUMMESA	ECE	199Y1A04E6@ksrmce.ac. in
9	199Y1A04E7	KOUSAR (W)	B. Tech. III sem ECE	199Y1A04E7@ksrmce.ac.
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A.V. Bhome Coordinator

G. y Sh HOD

V. S.S. Mwly Principal

Professor & H.O.D. Department of E.C.E.

PRINCIPAL

K.S.R.M. College of Engineering S.R.M. COLLEGE OF ENGINEERING KADAPA - 516 003. KADAPA - 516 003. (A.P.)

Python for Data Science

Course Objectives:

28Hrs

- To understand libraries of Python and dealing with missing data.
- To know the various classification and regression models.
- To analyze practical cases.

Course Outcomes:

After completion of the course the students are able to

- 1. Use the various libraries of python.
- 2. Analyze the various classification and regression models.
- 3. Apply the models on the data sets

Module 1: Introduction to Python- Introduction to Spyder, Variables and Data types, Operators, Lists, Tuples, Dictionary, Sets, Numpy, Matrix, Linear algebra. (6 Hrs)

Module 2: Reading data- Pandas Data frames, Control structures & Functions, Exploratory data analysis-Data Visualization, Dealing with missing data. (6 Hrs)

Module 3: Predictive Modeling- Linear Regression, Model Assessment, Diagnostics to Improve Linear Model Fit, Cross Validation, Classification, Logistic Regression, Performance Measures, K - Nearest Neighbors (kNN), K - means Clustering, Logistic Regression, Decision Trees, (8 hrs)

Module 4: Case studies- Introduction to Classification Case Study, Case Study on Classification, Introduction to Regression Case Study, Case Study on Regression. (8Hrs)

Text Books:

- 1. Introduction to linear algebra by Gilbert Strang
- 2. Applied statistics and probability for engineers by Douglas Montgomery
- 3. Mastering python for data science, Samir Madhavan

Professor & H.O.D.

Department of E.C.E.

K.S.R.M. College of Engineering KADAPA - 516 083.



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Department of Electronics & Communication Engineering

Certificate Course on Python for DATA Science

Schedule

S.No	Date	Time	Faculty	Topic
1	12/12/2020	3PM to 5PM	Dr. M.V. Narayana Sri.A.Valli Basha Sri.P.Krishna Teja	Introduction to Python- Introduction to Spyder.
2	13/12/2020	3PM to 5PM	Dr. M.V. Narayana	Variables and Data types, Operators.
3	14/12/2020	3 PM to 5PM	Dr. M.V. Narayana	Lists, Tuples, Dictionary, Sets, Numpy, Matrix, Linear algebra.
4	15/12/2020	3 PM to 5PM	Dr. M.V. Narayana	Reading data- Pandas Data frames, Control structures & Functions,
5	16/12/2020	3 PM to 5PM	Dr. M.V. Narayana	Exploratory data analysis-Data Visualization, Dealing with missing data.
6	18/12/2020	3 PM to 5PM	Dr. M.V. Narayana	Predictive Modeling- Linear Regression, Model Assessment.
7	19/12/2020	3 PM to 5PM	Sri.A.Valli Basha	Diagnostics to Improve Linear Model Fit, Cross Validation, Classification, Logistic Regression.
8	22/12/2020	3 PM to 5PM	Sri.A.Valli Basha	, Performance Measures, K - Nearest Neighbors (kNN), K - means Clustering, Logistic Regression.
9	23/12/2020	3 PM to 5PM	Sri.A.Valli Basha	Decision Trees, Multiple Linear Regressions.
10	24/12/2020	3 PM to 6PM	Sri.P.Krishna Teja	Case studies- Introduction to Classification Case Study,
11	25/12/2020	3 PM to 6PM	Sri.P.Krishna Teja	Case Study on Classification, Introduction to Regression Case Study

12	26/12/2020 27/12/2020	3 PM to 6PM	Dr. M.V. Narayana	Case Study on Regression Exam and Certificate
			Sri.A.Valli Basha Sri.P.Krishna Teja	Distribution

A.v. Bhow

Coordinators

Professor & H.O.D.
Department of E.C.E.

V. S. S. Muly Principal

K.S.R.M. College of E.C.E. PRINCIPLE
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ACTIVITY REPORT

Certification Course

On

"Python for Data Science"

12/12/2020 to 27/12/2020

Target Group

Students

:

Details of Participants

62 Students

Coordinators

Sri A. Valli Basha, Asst. Professor in ECE Dept.

Sri P. Krishna Teja, Asst. Professor in ECE Dept.

Organizing Department

Department of Electronics & Communication Engineering

Venue

Online mode (Google meet) :

Description:

Certificate course on "Python for Data Science" was organized by Dept. of ECE from 12-12-2020 to 27-12-2020 in online mode. Dr. M. V. Narayana, Sri A. Valli Basha and Sri P. Krishna Teja acted as Course instructors. The main aim of the course is to create awareness among students on the fundamental ideas behind Python for data science. Python is a great choice for the backend side of development as well as the software development of devices. Some of the many advantages of working with Python for Data Science are the speed at which you can develop code and a large number of libraries for all kinds of platforms. Thirty Hours course was successfully completed and participation certificates were provided to the

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A.V. Bheele Sri A. Valli Basha Sri P. Krishna Teja Coordinators

V. S.S. Muly Principal

PRINCIPAL K.S.R.M. COLLEGE OF ENGINEERING KADAPA - 516 003. (A.P.)





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Department of Electronics & Communication Engineering Certificate Course on Python for Data Science Attendance Sheet

S. No.	Roll Num	Name of the Student	12/12/2020	13/12/2020	14/12/2020	15/12/2020	16/12/2020	17/12/2020	18/12/2020	19/12/2020	20/12/2020	21/12/2020	22/12/2020	23/12/2020	24/12/2020	25/12/2020	26/12/2020	27/12/2020
1	199Y1A0401	AKULA VENKATESH	/	/	V	V	V	V	V	X	~	~	V	V	V	V	~	V
2	199Y1A0402	AMBATI MOULEESWARA REDDY	~	V	/	V	V	~	V	/	V	20	/	~	V	V	V	V
3	199Y1A0403	ANGAJALA KAVYA SREE	N	~	~	~	x	1/	V	V	V	V	V	V	V	V	V	V
4	199Y1A0407	AYYALURI VENKATA PAVAN KUMAR REDDY	~	X	~	V	~	V	/	V	V	V			~	V	·	-
5	199Y1A0408	BALASAMUDRAM AJAY KUMAR	V	/	~	~	V	V	×	V	V	1	V	V	V	~		V
6	199Y1A0409	BANDI SAI BALAJI	~	V	~	X	~	V	V	V	~	~	V	V	~	V	V	V
7	199Y1A0411	BANDISEELA UDAYKUMAR	/	V	~	V	~	~	V	~	×	/	V	V	~	V	V	V
8	199Y1A0412	BARIVENKULA SREENATH	/	~	X	/	/	V	V	/	V	V	V	~	V	V	~	1
9	199Y1A0413	BINGIMALLA VENKATA THARUN KUMAR	~	×	~	~	~	V	V		~	~	V	v	V	V	c	V
10	199Y1A0414	BOKKASAM SAI DEEPAK	/	~	/	V	V	V	X	/	~	V	V	V	~	V	V	v
11	199Y1A0415	BOOSI VENKATA SAINATH REDDY	V	~	~	V	×	V	V	·V	V	V	V	V	~	~	V	V
12	199Y1A0417	C JASHWANTH VARMA	~	V	V	V	V	V	V	V	X	/	V	V	V	~	V	V
13	199Y1A0418	CHAGANTI TEJESH KUMAR REDDY	N	V	/	V	×	V	V	V	/	V	V	V	-	V	~	~

														T				
14	199Y1A0419	CHALLA STEPHEN KUMAR	×	V	~	V	V	V	/	V	V	/	V	/	~	V		V
15	199Y1A0420	CHAVALI RAJESH	~	~	~	V	/	V	/	/	V	X	/	V	1	1		V
16	199Y1A0421	CHAVVA SAI SUSMITHA (W)	~	X	~	V	V	V	V	~	V	~	V	V	V	V	-	~
17	199Y1A0422	CHEEPATI VARAPRASAD REDDY	~	V	V	V	V	V	V	~	V	V	V	~	x	V	1	~
18	199Y1A0423	CHENNABOINA GURU DEEKSHITH	~	V	X	V	-	V	V	V	V	V	~	V	V	V	V	V
19	199Y1A0424	CHEPPALI ANKAIAH	/	V	V	V	V	~	V	V	V	V	V	V	V	X	~	~
20	199Y1A0425	CHERUVU SAI PRAKASH REDDY	V	~	X	V	V	~	V	V	V	V	L	~	~	V		/
21	199Y1A0427	CHINNAKOTLA SAI DHEERAJ	V	/	~	/	V	V	/	V	V	×	V	V	/	VI	/ /	/
22	199Y1A0428	CHINNAULA SANDEEP REDDY	V	X	V	V	/	/	V	V	V	~	/	V	/	VI	/	V
23	199Y1A0430	CHINTAKUNTA VEERA SIVA	~	V	V	~	V	V	X	~	V	V	V	V	V	~		1
24	199Y1A0431	CHINTHALAPALLI MADHURIMA (W)	/	V	/	V	V	~	1	V	V	V	V	~	V	V	XI	V
25	199Y1A0432	DANDE MOUNIKA (W)	V	X	V	V	/	V	V	V	~	V	V	V	V	V	1	/
26	199Y1A0433	DERANGULA SAI KUMAR	~	/	V	x	V	/	V	V	/	V	~	·	V	V	V	V
27	199Y1A0436	DEVARASETTY HARIPRIYA (W)	V	V	/	V	V	X	/	V	~	/	/	V	V	V	VI	/
28	199Y1A0437	DINNEPU IIIKAS BHARADWAJ REDDY	V	X	/	V	/	V	~	/	~	V	V	V	1	1	/ \	
29	199Y1A0440	GADDA UPENDRA	1/	/	V	X	V	V	V	V	V	V	V	V	V	v.	~	/
30	199Y1A0441	GADDE ANUSHKA (W)	×	V	~	~	V	V	V	V	~	V	V	V	V	VI	V	/
31	199Y1A0442	GAJJALA NAVYA TEJASREE (W)	V	V	V	V	V	V	/	V	V	V	V	X	~	V	V	V
32	199Y1A0443	GAMPA SIVA KUMAR	/	V	X	~	V	V	~	1	~	V	~	V	V	V	VI	/
33	199Y1A0444	GANDIKOTA SWARNALATHA (W)	V	~	~	V	X	V	/	V	V	V	/	V	V	1	VI	/
34	199Y1A0446	GANGIREDDY SAI PRAVALLIKA (W)	~	V	V	V	V	V	X	V	V	1	/	V	V	V	V	V
35	199Y1A0448	GOLLA PRASANNA KUMAR	V	~	V	V	V	V	/	X	V	V	~	1	V	V	V	V
36	199Y1A0449	GOPANA IIISHNUVARDHAN NAIDU	V	V	V	V	V	V	V	V	V	X	>	V		/	1	~
37	199Y1A0450	GOTLA YESWANTH	/	1	V	V	V	V	V	V	V	V	1	V	V	· V	V	X
38	199Y1A0451	GOURIPEDDI K S SREEDHANYA (W)		V	V	V	V	V	V	V	V	V	\	x	V	V	~	V
39	199Y1A0452	GULYAM SHARATH	V	1	V	V	V	V	V	V	V	V	X	/	~	V		V
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Certificate Course on Python for DATA Science

12/12/2020to 27/12/2020

Organized by

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IPython: Beyond Normal Python

There are many options for development environments for Python, and I'm often asked which one I use in my own work. My answer sometimes surprises people: my preferred environment is IPython plus a text editor (in my case, Emacs or Atom depending on my mood). IPython (short for *Interactive Python*) was started in 2001 by Fernando Perez as an enhanced Python interpreter, and has since grown into a project aiming to provide, in Perez's words, "Tools for the entire lifecycle of research computing." If Python is the engine of our data science task, you might think of IPython as the interactive control panel.

As well as being a useful interactive interface to Python, IPython also provides a number of useful syntactic additions to the language; we'll cover the most useful of these additions here. In addition, IPython is closely tied with the Jupyter project, which provides a browser-based notebook that is useful for development, collaboration, sharing, and even publication of data science results. The IPython notebook is actually a special case of the broader Jupyter notebook structure, which encompasses notebooks for Julia, R, and other programming languages. As an example of the usefulness of the notebook format, look no further than the page you are reading: the entire manuscript for this book was composed as a set of IPython notebooks.

IPython is about using Python effectively for interactive scientific and data-intensive computing. This chapter will start by stepping through some of the IPython features that are useful to the practice of data science, focusing especially on the syntax it offers beyond the standard features of Python. Next, we will go into a bit more depth on some of the more useful "magic commands" that can speed up common tasks in creating and using data science code. Finally, we will touch on some of the features of the notebook that make it useful in understanding data and sharing results.

\$ jupyter notebook

[NotebookApp] Serving notebooks from local directory: /Users/jakevdp/...

[NotebookApp] 0 active kernels

[NotebookApp] The IPython Notebook is running at: http://localhost:8888/

[NotebookApp] Use Control-C to stop this server and shut down all kernels...

Upon issuing the command, your default browser should automatically open and navigate to the listed local URL; the exact address will depend on your system. If the browser does not open automatically, you can open a window and manually open this address (http://localhost:8888/ in this example).

Help and Documentation in IPython

If you read no other section in this chapter, read this one: I find the tools discussed here to be the most transformative contributions of IPython to my daily workflow.

When a technologically minded person is asked to help a friend, family member, or colleague with a computer problem, most of the time it's less a matter of knowing the answer as much as knowing how to quickly find an unknown answer. In data science it's the same: searchable web resources such as online documentation, mailing-list threads, and Stack Overflow answers contain a wealth of information, even (especially?) if it is a topic you've found yourself searching before. Being an effective practitioner of data science is less about memorizing the tool or command you should use for every possible situation, and more about learning to effectively find the information you don't know, whether through a web search engine or another means.

One of the most useful functions of IPython/Jupyter is to shorten the gap between the user and the type of documentation and search that will help them do their work effectively. While web searches still play a role in answering complicated questions, an amazing amount of information can be found through IPython alone. Some examples of the questions IPython can help answer in a few keystrokes:

- How do I call this function? What arguments and options does it have?
- What does the source code of this Python object look like?
- What is in this package I imported? What attributes or methods does this object have?

Here we'll discuss IPython's tools to quickly access this information, namely the ? character to explore documentation, the ?? characters to explore source code, and the Tab key for autocompletion.

Accessing Documentation with?

The Python language and its data science ecosystem are built with the user in mind, and one big part of that is access to documentation. Every Python object contains the

```
....: return a ** 2
. . . . :
```

Note that to create a docstring for our function, we simply placed a string literal in the first line. Because docstrings are usually multiple lines, by convention we used Python's triple-quote notation for multiline strings.

Now we'll use the ? mark to find this docstring:

```
In [7]: square?
Type:
       function
String form: <function square at 0x103713cb0>
Definition: square(a)
Docstring: Return the square of a.
```

This quick access to documentation via docstrings is one reason you should get in the habit of always adding such inline documentation to the code you write!

Accessing Source Code with ??

Because the Python language is so easily readable, you can usually gain another level of insight by reading the source code of the object you're curious about. IPython provides a shortcut to the source code with the double question mark (??):

```
In [8]: square??
Type:
        function
String form: <function square at 0x103713cb0>
Definition: square(a)
Source:
def square(a):
    "Return the square of a"
   return a ** 2
```

For simple functions like this, the double question mark can give quick insight into the under-the-hood details.

If you play with this much, you'll notice that sometimes the ?? suffix doesn't display any source code: this is generally because the object in question is not implemented in Python, but in C or some other compiled extension language. If this is the case, the ?? suffix gives the same output as the ? suffix. You'll find this particularly with many of Python's built-in objects and types, for example len from above:

```
In [9]: len??
          builtin_function_or_method
String form: <built-in function len>
Namespace: Python builtin
Docstring:
len(object) -> integer
```

Return the number of items of a sequence or mapping.

Tab completion when importing

Tab completion is also useful when importing objects from packages. Here we'll use it to find all possible imports in the itertools package that start with co:

```
In [10]: from itertools import co<TAB>
combinations
                               compress
combinations_with_replacement count
```

Similarly, you can use tab completion to see which imports are available on your system (this will change depending on which third-party scripts and modules are visible to your Python session):

```
In [10]: import <TAB>
Display all 399 possibilities? (y or n)
Crypto
                   dis
                                        py_compile
Cython
                   distutils
                                        pyclbr
difflib
                    pwd
                                        zmq
In [10]: import h<TAB>
hashlib
                                        http
heapq
                    html
                                        husl
```

(Note that for brevity, I did not print here all 399 importable packages and modules on my system.)

Beyond tab completion: Wildcard matching

Tab completion is useful if you know the first few characters of the object or attribute you're looking for, but is little help if you'd like to match characters at the middle or end of the word. For this use case, IPython provides a means of wildcard matching for names using the * character.

For example, we can use this to list every object in the namespace that ends with Warning:

```
In [10]: *Warning?
BytesWarning
                              RuntimeWarning
DeprecationWarning
                              SyntaxWarning
FutureWarning
                              UnicodeWarning
ImportWarning
                              UserWarning
PendingDeprecationWarning
                              Warning
ResourceWarning
```

Notice that the * character matches any string, including the empty string.

Similarly, suppose we are looking for a string method that contains the word find somewhere in its name. We can search for it this way:

Data Science Applications & Use Cases



Instructor: Ekpe Okorafor

- 1. Accenture Big Data Academy
- 2. Computer Science African University of Science & Technology

Objectives

Objectives

- · Understand Big Data Challenges
- What exactly is Data Science and what do Data Scientists do
- · Data Science contrasted with other disciplines
- · Case Study & Use Cases

Outline

- Big Data & Challenges
- · What is Data Science
- · Data Science & Academia
- · Data Science & Others
- Case Studies
- Essential points
- Conclusion

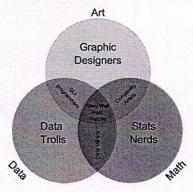
Data All Around

- Lots of data is being collected and warehoused
 - Scientific Experiments
 - Internet of Things
 - Web data, e-commerce
 - Financial transactions, bank/credit transactions
 - Online trading and purchasing
 - Social Network
 - many more!

•

What is Data Science?

· Other definitions focus more on technical skills alone.



What is Data Science?

- An area that manages, manipulates, extracts, and interprets knowledge from tremendous amount of data
- Data science (DS) is a multidisciplinary field of study with goal to address the challenges in big data
- Data science principles apply to all data big and small

10

What is Data Science?

- Theories and techniques from many fields and disciplines are used to investigate and analyze a large amount of data to help decision makers in many industries such as science, engineering, economics, politics, finance, and education
 - Computer Science
 - Pattern recognition, visualization, data warehousing, High performance computing, Databases, AI
 - Mathematics
 - · Mathematical Modeling
 - Statistics
 - · Statistical and Stochastic modeling, Probability.

Data Science Vs Analysis Vs Software Delivery

Component	Traditional Analysis	Traditional Software Delivery	Data Science
Tools	SAS, R, Excel, SQL, in- house tools	Java, source control, Linux, continuous integration, unit testing, bug reports and project management	R, Java, scientific Python libraries, Excel, SQL, Hadoop, Hive, Pig. Mahout and other machine learning libraries, github for source control and issue management
Analytical Methods	Regressions, classifications, measuring prediction accuracy and coverage/error, sampling	N/A	Classification, clustering, similarity detection, recommenders, unsupervised and supervised learning, small- and large-scale computations, measuring prediction accuracy and coverage/error
Team Structure	Statisticians, Mathematicians, Scientists	Developers, Project Managers, Systems Engineers	Mathematicians, Statisticians, Scientists, Developers, Systems Engineers
Time Frame	Either: - Usually on-going research and discovery within a team in the organization Or: - Specific project to determine answers	Regular software release cycle, continuous delivery, etc.	Either: Discovery/flearning phase leading to product development Or: On-going research and product invention/improvement

12

Data Science & Academia

- In a post by Jake Vanderplas in 2014 related to SciFoo discussion on: Academia and Data Science, the following questions below were discussed.
- I encourage you to develop your own thoughts on them and come up with your assessment
 - Where does Data Science fit within the current structure of the university & research institutions?
 - What is it that academic data scientists want from their career?
 How can academia offer that?
 - What drivers might shift academia toward recognizing & rewarding data scientists in domain fields?
 - Recognizing that graduates will go on to work in both academia and industry, how do we best prepare them for success in both worlds?

Data Science Applications

	Business	Health Care	Urban Leaving
Summary	From car design to insurance to pizza delivery, businesses are using data science to optimize their operations and better meet their customers' expectations.	Tomorrow's healthcare may look more efficient thanks to things like electronic health records. It also may look a lot more effective. Reduced readmissions, better care, and earlier detection are on the horizon.	For the first time in human history, more people live in cities than in suburban or rural areas. An emerging field called "urban informatics" combines data science with the unique challenges facing the world's growing cities
	Two-Way Street for the Ford Focus Electric Car	Reducing Hospital Readmissions	Taking on Megacity Traffic
What is happening?	Better Fraud Detection Boosts Customer Satisfaction	Better Point-of-Care Decisions	Fighting Crime with Data "predictive policing"
	E-Commerce Insights: Domino's Secret Sauce		
What is possible	Using Social Data to Select Successful Retail Locations	Medical Exams by Bathroom Mirrors	Instrumenting cities

17

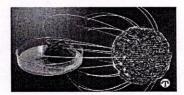
Contrast: Computational Sciences

 Is there a contrast between Data Science and Computational Science?



Data Science: Case Study Cancer Research

- Cancer is an incredibly complex disease; a single tumor can have more than 100 billion cells, and each cell can acquire mutations individually. The disease is always changing, evolving, and adapting.
- Employ the power of big data analytics and high-performance computing.
- Leverage sophisticated pattern and machine learning algorithms to identify patterns that are potentially linked to cancer
- · Huge amount of data processing and recognition



18

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Essential Points

- · Big Data has given rise to Data Science
- Data science is rooted in solid foundations of mathematics and statistics, computer science, and domain knowledge
- Sexy profession Data Scientists ©
- Not every thing with data or science is Data Science!
- · The use cases for Data Science are compelling

Conclusion

In this section you have learned

- · What Big Data Challenges are
- What exactly is Data Science and what do Data Scientists do
- · Data Science contrasted with other disciplines
- · Case Study & Use Cases

25 26

Questions?





http://www.ign.com/articles/2015/12/16/star-wars-the-force-awakens-review

27



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Head Of Department

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Head Of Department

Principal

V. S. S. Mul



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Department of Electronics & Communication Engineering Feedback Form

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33	rmce.ac.in	SWARNALATHA	B.Tech Illsem	ECE	199Y1A0444	Yes	Yes	agree	Agree	Strongly agree	5	4	no
	199Y1A0446@ks	GANGIREDDY SAI											
34		PRAVALLIKA (W)	B.Tech Illsem	ECE	199Y1A0446	Yes	Yes	agree	Agree	Strongly agree	5	4	Nothing
34	199Y1A0448@ks	GOLLA			222.27.07.70								
35		PRASANNA	B.Tech Illsem	FCF	199Y1A0448	Yes	Yes	agree	Agree	Strongly agree	5	4	Good
	IIIICE.aC.III	FINASAIVIVA	b. recir iliselli	LCL	1331170440	1.03	1.03	agree	1.8.00	2.0.18.7 08.00			

					T								
	199Y1A0449@ks	GOPANA											
36	rmce.ac.in	IIISHNUVARDHAN	B.Tech Illsem	ECE	199Y1A0449	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
	199Y1A0450@ks	GOTLA											
37	rmce.ac.in	YESWANTH	B.Tech IIIsem	ECE	199Y1A0450	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
	199Y1A0451@ks	GOURIPEDDI K S						Strongly					
38	rmce.ac.in	SREEDHANYA (W)	B.Tech IIIsem	ECE	199Y1A0451	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
	199Y1A0452@ks	GULYAM						Strongly				de y	
39	rmce.ac.in	SHARATH	B.Tech IIIsem	ECE	199Y1A0452	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
	199Y1A0456@ks	JANGAMSETTY						Strongly					
40	rmce.ac.in	VINOD	B.Tech IIIsem	ECE	199Y1A0456	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
	199Y1A0459@ks	SOWMYA PRIYA											
41	rmce.ac.in	(W)	B.Tech Illsem	ECE	199Y1A0459	Yes	Yes	agree	Agree	Strongly agree	4	4	Good
Find	199Y1A0460@ks												
42	rmce.ac.in	KAKARLA SAGAR	B.Tech Illsem	ECE	199Y1A0460	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
	199Y1A0461@ks	KAKE											
43	rmce.ac.in	SAIBHARATH	B.Tech Illsem	ECE	199Y1A0461	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
	199Y1A0463@ks	KALUVALA				375.11	134						
44	rmce.ac.in	SREEIIIDYA (W)	B.Tech Illsem	ECE	199Y1A0463	Yes	Yes	agree	Agree	Strongly agree	3	5	Good
	199Y1A0464@ks	KAMBAM MANOJ										. 3	
45	rmce.ac.in	KUMAR	B.Tech Illsem	ECE	199Y1A0464	Yes	Yes	agree	Agree	Strongly agree	3	5	Nothing
	199Y1A0468@ks							Strongly					
46	rmce.ac.in	KAYAM IIINAY	B.Tech IIIsem	ECE	199Y1A0468	Yes	Yes	agree	Agree	Strongly agree	2	5	Nothing
	199Y1A0471@ks	KOMPALA SAI											
47	rmce.ac.in	CHARAN	B.Tech Illsem	ECE	199Y1A0471	Yes	Yes	agree	Agree	Strongly agree	2	5	very good
	199Y1A0473@ks	EESHITHA		3.77									
48	rmce.ac.in	RACHANA	B.Tech Illsem	ECE	199Y1A0473	Yes	Yes	agree	Agree	Strongly agree	4	5	very good
	199Y1A0479@ks	KUNDHARAPU						Strongly					
49	-	VENKATESH	B.Tech Illsem	ECE	199Y1A0479	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	very good
	199Y1A0483@ks	KURUVA						Strongly					
50		LAKSHMANNA	B.Tech Illsem	ECE	199Y1A0483	Yes	Yes	agree	Agree	Strongly agree	4	5	nothing
50	rmce.ac.in	LAKSHIVIANNA	B.Tech Illsem	ECE	199Y1A0483	Yes	Yes	agree	Agree	Strongly agree	4	5	nothing

	199Y1A0484@ks	KURUVA SAI											
51	rmce.ac.in	PRAKASH	B.Tech IIIsem	ECE	199Y1A0484	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
	199Y1A0485@ks	KUTEDDULA											
52	rmce.ac.in	JASWANTH	B.Tech IIIsem	ECE	199Y1A0485	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
	199Y1A0487@ks	M SAI VARDHAN											
53		NAIDU	B.Tech IIIsem	ECE	199Y1A0487	Yes	Yes	agree	Agree	Strongly agree	4	5	nothing
7.45	199Y1A04E3@ks	MOHAMMED											
54	rmce.ac.in	GHOUSE	B.Tech IIIsem	ECE	199Y1A04E3	Yes	Yes	agree	Agree	Strongly agree	4	5	nothing
		SHAIK					17/21	PA N					
	199Y1A04E4@ks	MOHAMMED											
55	rmce.ac.in	YASEEN	B.Tech Illsem	ECE	199Y1A04E4	Yes	Yes	agree	Agree	Strongly agree	4	5	nothing
	199Y1A04E5@ks	MUNAZZAH										100	
56	rmce.ac.in	FATIMA (W)	B.Tech Illsem	ECE	199Y1A04E5	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
	199Y1A04E6@ks	SHAIK MUSAB		7							4 118		
57	rmce.ac.in	AHAMED	B.Tech IIIsem	ECE	199Y1A04E6	Yes	Yes	agree	Agree	Strongly agree	5	5	Good
	199Y1A04E7@ks	SHAIK RUMMESA						1 7 1					
58	rmce.ac.in	KOUSAR (W)	B.Tech IIIsem	ECE	199Y1A04E7	Yes	Yes	agree	Agree	Strongly agree	5	5	very good
	199Y1A04E8@ks							Strongly					
59	rmce.ac.in	SHAIK SADAK ALI	B.Tech Illsem	ECE	199Y1A04E8	Yes	Yes	agree	Agree	Strongly agree	5	5	very good
	199Y1A04E9@ks	SHAIK YUNOOSH				2 1945		Strongly					
60	rmce.ac.in	HUSSAIN	B.Tech Illsem	ECE	199Y1A04E9	Yes	Yes	agree	Agree	Strongly agree	5	5	nothing
	199Y1A04F0@ks	SIDDAVATAM										- 1	
61	rmce.ac.in	SUDHARSHAN	B.Tech IIIsem	ECE	199Y1A04F0	Yes	Yes	agree	Agree	Strongly agree	5	5	no
		SIKILIGIRI					19						
	199Y1A04F1@ks	SAMEER											
62	rmce.ac.in	AHAMMAD	B.Tech Illsem	ECE	199Y1A04F1	Yes	Yes	agree	Agree	Strongly agree	5	5	Nothing

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