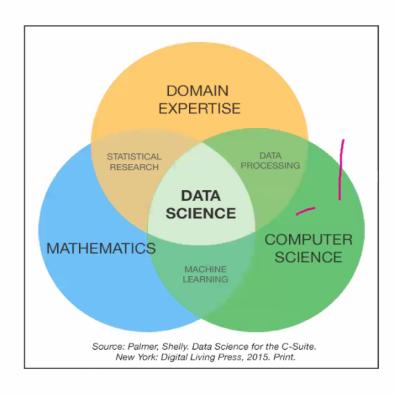
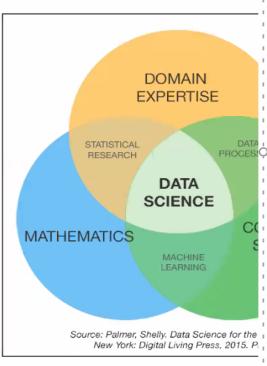


## What is Data Science?



# What is Data Scientification with the second second



1. Computer Science

Programming-P

Non programming- NP

Goal of Programing-X software engineering

Goal of programming-> To solve a business problem

Collect data

Clean data

Transform data

Analyze data

Prediction

Data is the heart of programming in Data Science

Rule#2: Jack of all tools, MASTER ONLY ONE

Which tool should I master?

Python

SAS

Weka

Azure ML

Internationa Matlab



## 1990s Data Science

• Writing code in C/C Logistic regression

Working with flat fi:3-5 lines of code

100 lines of code

• Even relational/SQ | Rich ecosystem of libraries & packages | Don't reinvent the wheel

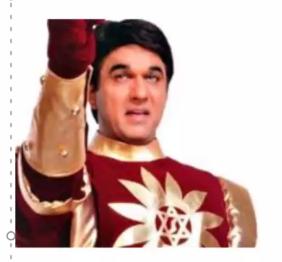
Using Matlab, IDL | Syntax or business problem?

Data manipulation- Pandas

Writing all algorith Data visualization- Matplotlib, bokeh, seaborn

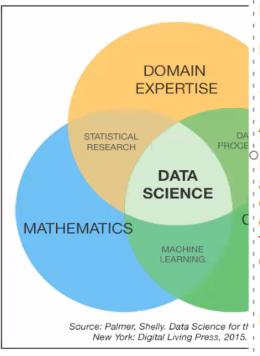
ML- > Scikit learn

AI-> Tensorflow -> Computer Vision/ NLP





# What is Data Scie Descriptive Statistics-> To describe your data/ To tell your data story



Average, median, mode, s.d., frequency

Data Scientist@Citibank

Build a ML model to predict whether a credit card is fraud or not

50 million credit card transactions

Analyze Data

Ratio of fraud vs non fraud transaction:

average fraud transaction vs average non fraud transaction value Geographical spread

Offline vs online

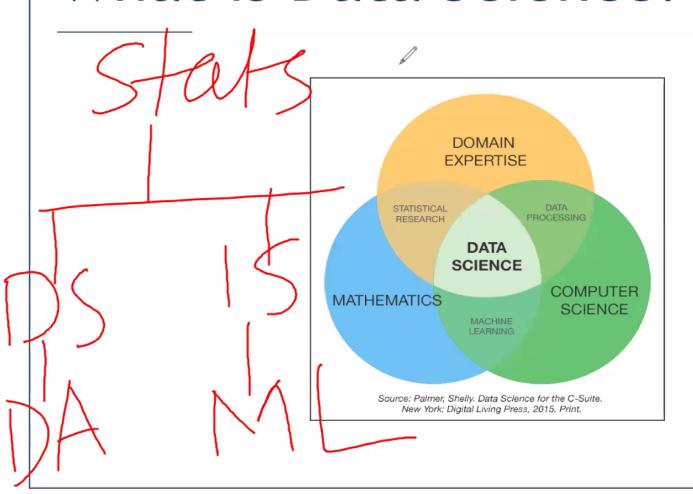
Time of the day

Credit card type- IndianOil/ Visa/Mastercards

Data leader-> Ask questions



# What is Data Science?



Enter Full Screen

**Zoom Webinar Chat** 

how can i get 2x hike

From Thothathiri to All panelists and attendees: am having 20+ year experience, will be getting same salaray as Data Leader

From Anupam Sriv... to All panelists and attendees:

From Nirav to All panelists and attendees:

From Sasidhar to All panelists and attendees:

From pratha pandey to All panelists and attendees:

From Me to All panelists:

i dont see all panelist and attendees...

From INSAID .co to All panelists and attendees: Chat is restricted for everyone, only panelists can see.

From Me to All panelists:

yes

From Rashmi to All panelists and attendees:

Can't see screen

IT yes heard

data scientist

From Me to All panelists:

like

heart of

From Rashmi to All panelists and attendees: love math

From Me to All panelists:

yes SME

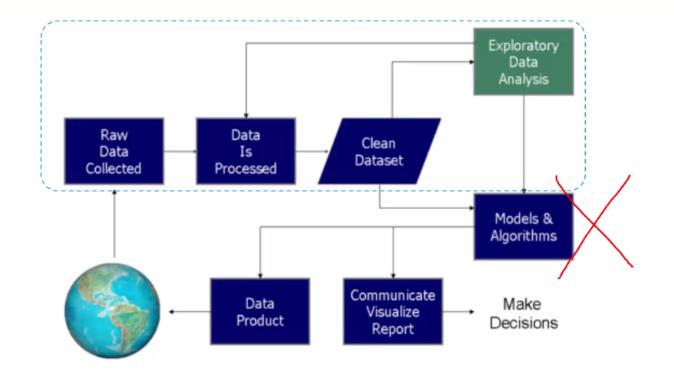
From Rashmi to All panelists and attendees: Analyze expense area

From Me to All panelists:

To: All panelists

Your text can only be seen by panelists

### Step 1: Learn to play with Data



International School of AI & Data Science



























how can i get 2x hike

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panelists can see.

Can't see screen IT ves heard data scientist

From Me to All panelists:

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From Rashmi to All panelists and attendees:

From Rashmi to All panelists and attendees:

From pratha pandey to All panelists and attendees:







Basics of Dashboarding Tableau/Qlikview/D3.js



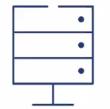
#### Al-Computer Vision/NLP

Decoding image components Preprocessing image data **Building language** translators/chatbots

### Learn Data Analysis

Python/R Basics Statistics basics Data manipulation

**Exploratory Data analysis** 



#### Advanced Machine Learning

Dimensionality reduction Optimizing ML models Boosting & bagging **Anomaly Detection** 

#### Tensorflow/Keras for Al

Learn core Machine Learning

Machine Learning basics

Unsupervised algorithms

Supervised algorithms

Foundations of Deep learning Convolution Neural networks Recurrent neural networks

International School of AI & Data Science



### Learn Data visualization



















Your text can only be seen by panelists

















	Certificate in Data Science Foundation®	Global Certificate in Data Science®	Global Certificate in Data Science & Al®
Term 1	Data analysis with Python	Data analysis with Python	Data analysis with Python
Term 2	Data visualization & EDA	Data visualization & EDA	Data visualization & EDA
Term 3	ML Foundation	ML Foundation	ML Foundation
	Minor Project	Minor Project	Minor Project
Term 4		ML Intermediate	ML Intermediate
Term 5		ML Advanced [Elective-1] Data analytics with R [Elective-2] Data visualization with Tableau [Elective-3]	ML Basics for Al(Recap)
Term 6		Capstone Project(Data Science)	Capstone Project(Data Science)
Term 7			Tensorflow & Keras for Al
Term 8			Deep Learning foundation for Al
Term 9			NLP-1
Term 10			Computer Vision-I
Term 11			Specialization: NLP-II/Computer Vision-II
			Capstone Project(AI)





### Fee after 70% tuition waiver

