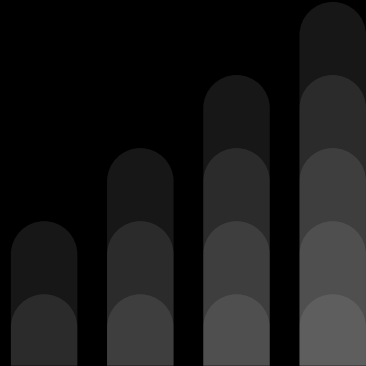
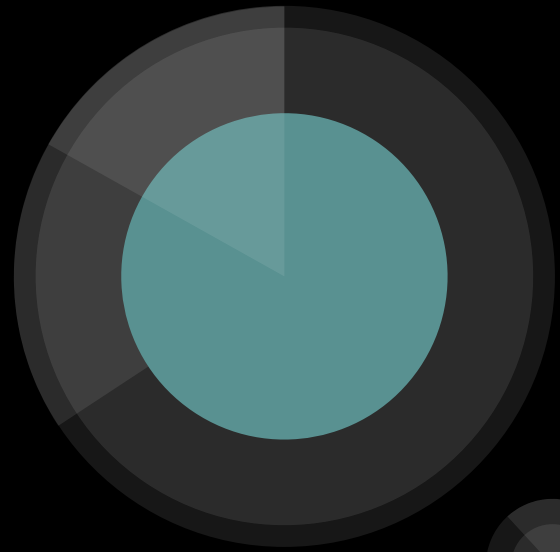


# Data Science and the Hype around it

An introduction to NumPy, Pandas and  
Matplotlib

A Session by ACM Student Chapter IITH

Presented by: Tanmay Goyal



# DATA

1. There are approximately 400,000 bytes of data for every grain of sand on earth.



## DATA

Data is raw, unorganized facts that need to be processed. Data can be something simple and seemingly random and useless until it is organized.

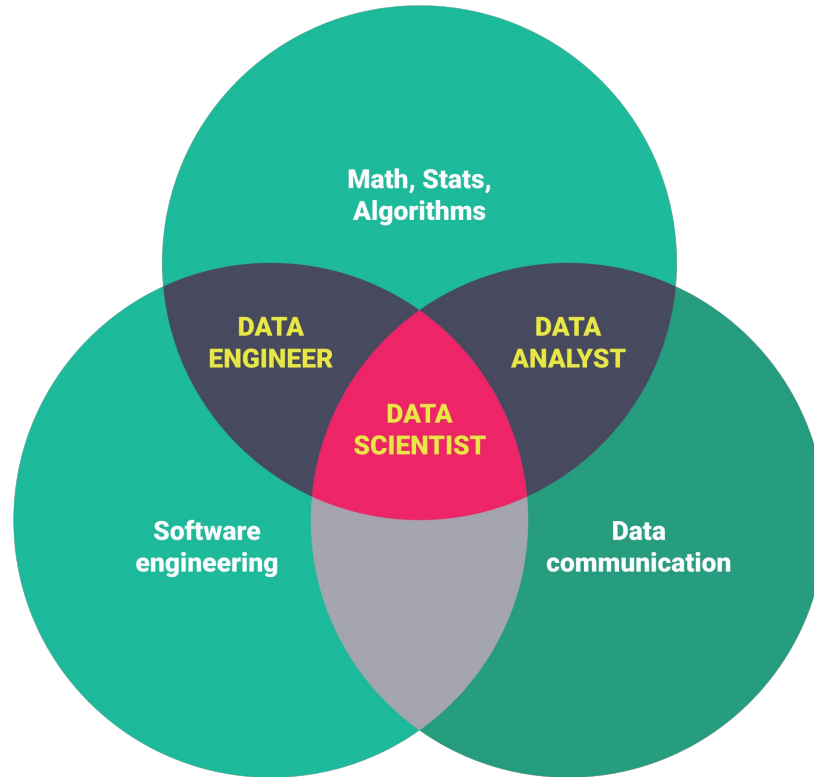


## INFORMATION

When data is processed, organized, structured or presented in a given context so as to make it useful, it is called information.

[illegible]

# So is it just Data Science?





# Requirements

- Technical Skills varying in the following:
  - Excel
  - SQL
  - Visualisation Tools such as Tableau, PowerBI
  - Some notion of coding -> R, Python, etc
  - Cloud Computing tools such as AWS/Azure
  - Apache Spark
  - Machine Learning
- What about mathematical or statistical skills?
- Remember, lot of overlap between the roles. Skills required as per demand!



# Is that it though?

- Inquisitiveness
- Communication Skills
- Presentation Skills
- Report Writing and Compilation and Summarization Skills
- A good eye!