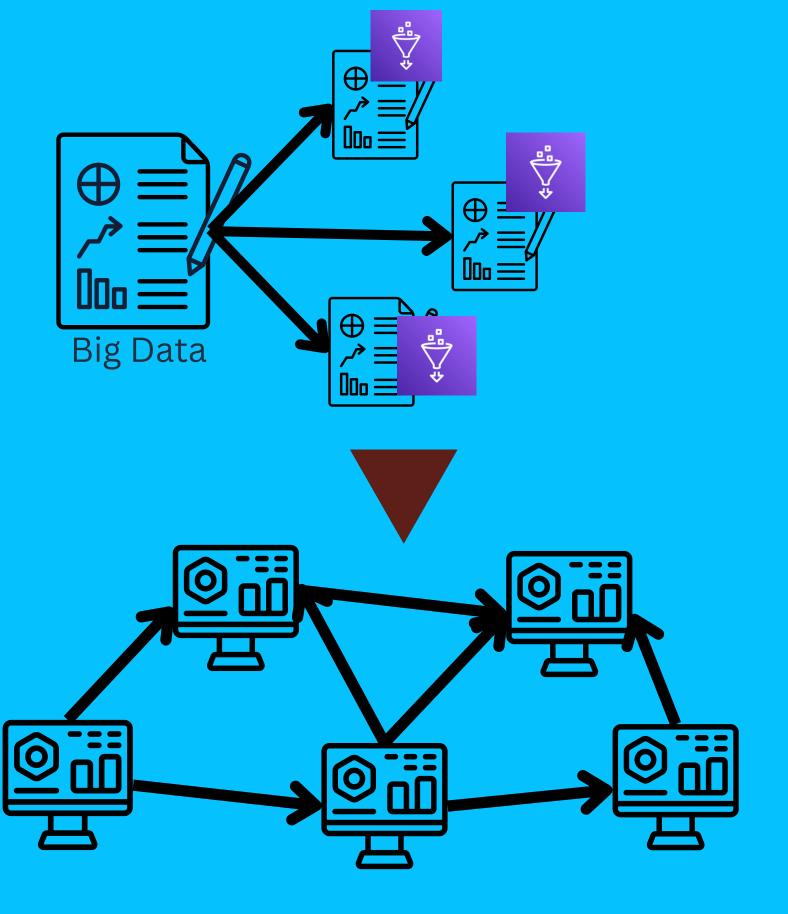


HANDS ON TUTORIAL USING JUPYTER NOTEBOOKS ON CLOUD

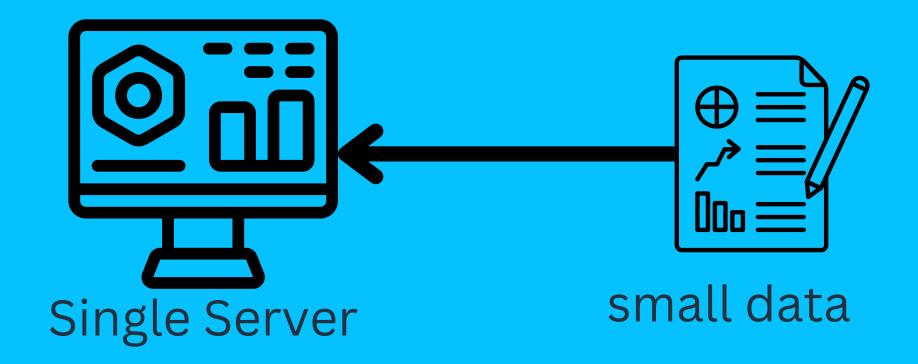
What is Big Data



A Lay man Definition

A file or Data that cannot be contained inside a RAM of one system

File that is bigger than the RAM will crash the program, when reading the data.



WHAT PROBLEM WE'RE FACING



PYSPARK & THIS VIDEO WILL SOLVE

WE TALKING WITH BIG DATA ENVIRONMENT

Spark program can function using our NTFS / LFS without the Distributed feature of the file storage and processing.

Only by getting hands on with a tech, we can master it

SERIES OF PROBLEM

- NOT HAVING BIG ENOUGH FILE
- NOT HAVING THE COMPUTE POWER
- PAID WAREHOUSES FOR LIMITED TIME
- OVERVIEW OF HOW EVERY PART OF ECOSYSTEM WORKS

HTTPS://GITHUB.COM/INSIGHTBUILDE

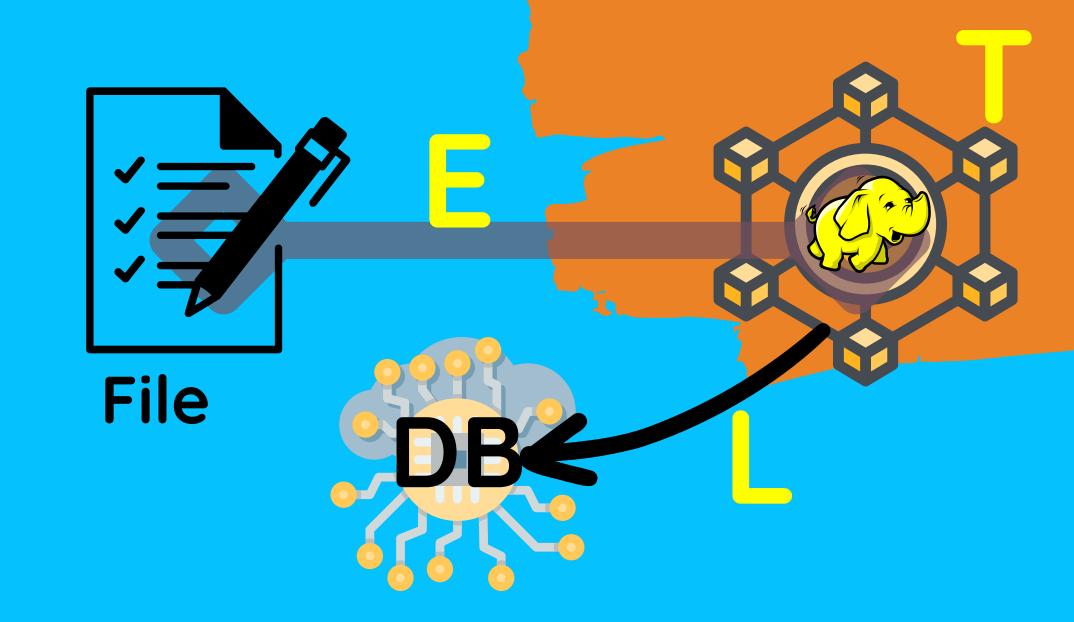


OUR OBJECTIVE

- 1. CREATE OURSELF A PLATFORM TO PRACTICE BIG DATA CONCEPT
- 2.UNDERSTAND THE BIG DATA CONCEPT AND THE ETL WORKFLOW
- 3. IMPLEMENT ETL USING PYSPARK AND SPARK SQL FROM ANY SOURCE TO DESTINATION
- 4.BECOME FAMILIAR WITH SPARK METASTORE AND USE IT FOR YOUR ADVANTAGE
- 5.BE COMFORTABLE WITH BIGDATA FILE TYPES LIKE PARQUET AND CSV

WHAT WE WILL DO

- 1) Starting Spark Context
- 2) Overview of Spark read & write APIs
 - 3) Inferring Schema
 - 4) Creating Partitions
- 5) Overview of Data Frame API
- 6) Working with Spark SQL
 - 7) Working with Spark Metastore



Spark Core - RDD and Map Reduce APIs

Spark Data Frames and Spark SQL

Spark Structured Streaming

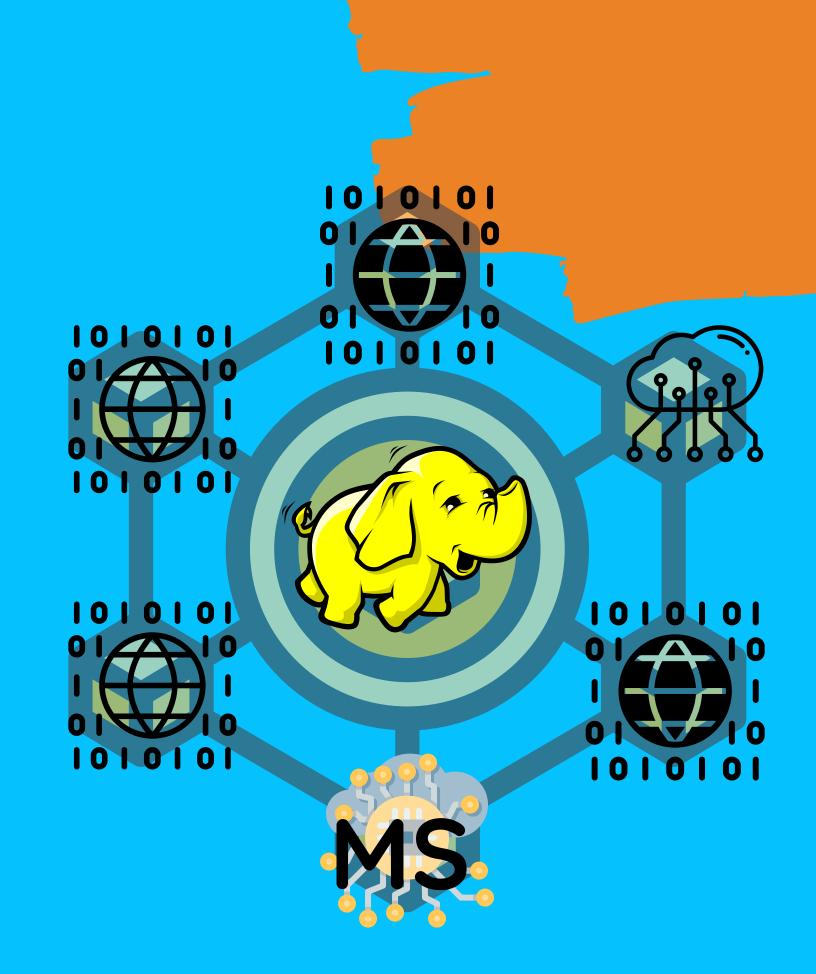
Spark MLLib (Data Frame based)

SPARK SESSION: OUR HERO

WHAT IS METASTORE

 A DATABASE that stores the location, dataset details that is stored inside the datawarehouse

 Every warehouse will have it for keeping track of file locations, so the apps like
 Spark/Hive/Kafka/Superset can locate it







Handson Pyspark notebook

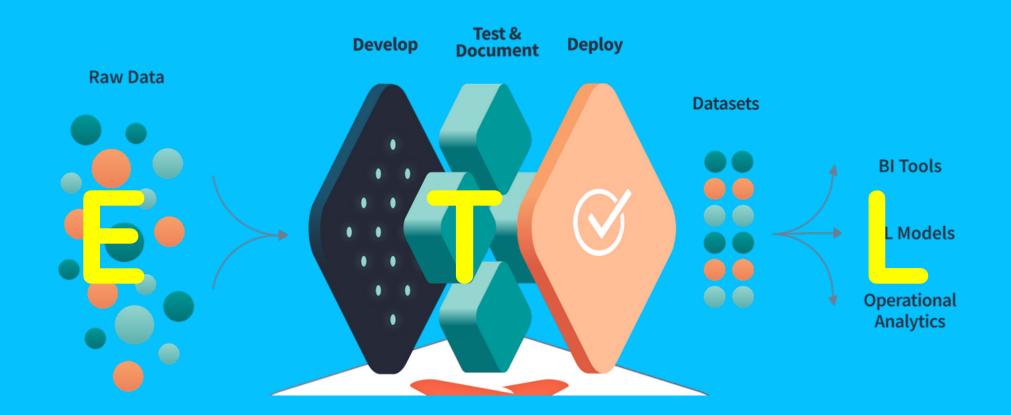
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kaggle.com / 01:17 AM

https://www.kaggle.com/code/kamaljp/handson-pyspark-notebook
QUESTIONS AND
COMMENTS

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WHAT NEXT???



PYSPARK ETL USING LARGER DATASETS

