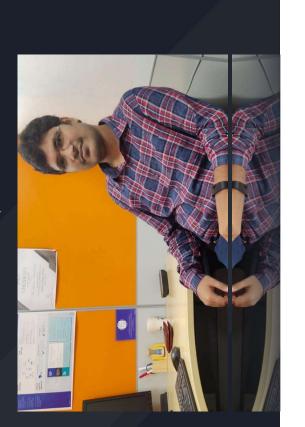






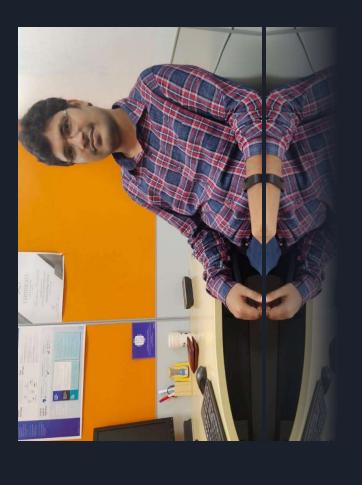
Introduction





About Me

- * Harishkumar CH
- Senior Tech Lead
- 10 Years in Solution development and Architecture design
- Social media:
- ➤ Facebook: /harishkumarreddy.cherla
- FB Page: /sysentity
- ➤ LinkedIn: /in/harishkumarreddy
- Whatsapp: +91 7997156656



Agenda

Level-1:

- Big Data
- Evaluation of Spark and it's features
- Databricks Tool and Python use case
- Python Setup and configure
- First Programm
- Core Python 5.
- Advanced Python
- Algorithms
- Data Structures
- Data Processing packages(Numpy, Pandas, SciPy)

Level-2:

- Databricks UI Overview
- Creating and managing Clusters and Jobs
- Playing with Notebooks
- RDD, Dataframe, Dataset
- **DBFS** and Datatables
- Mounting / Connecting with outside Data sources 6.
- **PySpark**
- Playing with realtime data with real time scenarios

Duration: 45 to 60 days

Requirements and Results

PreRequisites

- Basic system knowledge
- Understanding of business process
- Basic Domain knowledge
- No requirement of programming

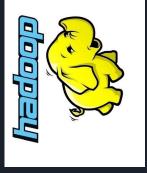
Gains

- Real Time experience
- Profitionality in Python
- Confidence to crack the interview

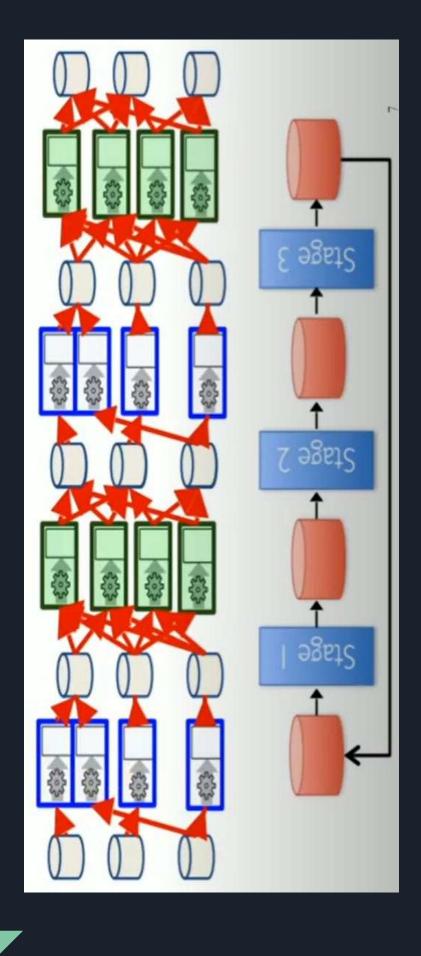
Big data

Big data is a term that describes the large volume of data – both structured and unstructured – that inundates a business on a day-to-day basis.

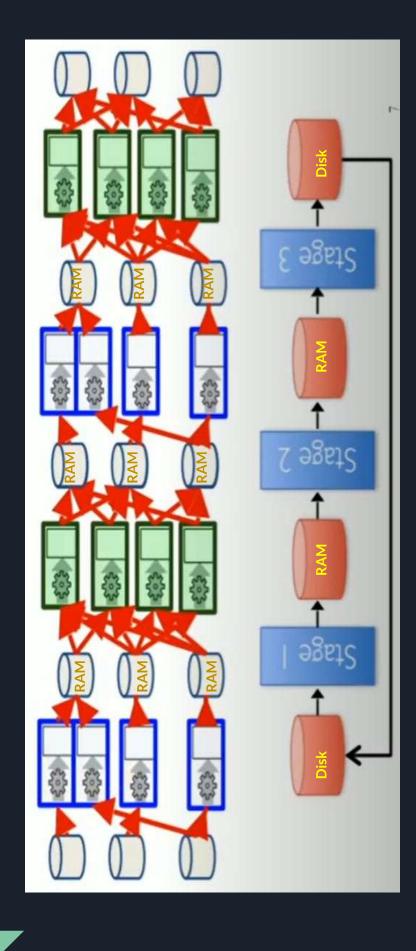
>	VARIETY	VELOCITY	VERACITY	VALUE	VARIABILITY
The types of data: structured, semi-structured, unstructured		The speed at which big data is generated	The degree to which big data can be trusted	The business value of the data collected	The ways in which the big data can be used and formatted



I/O Problem in Hadoop



Spark Solution for I/O Problem



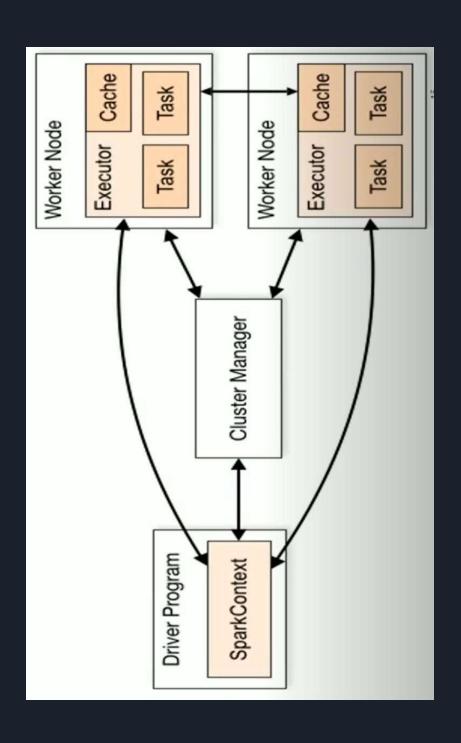
Sark for Big Data

R on Spark Computation GraphX Graph Machine Learning RDD API MLlib Streaming Streaming Spark Spark SQL

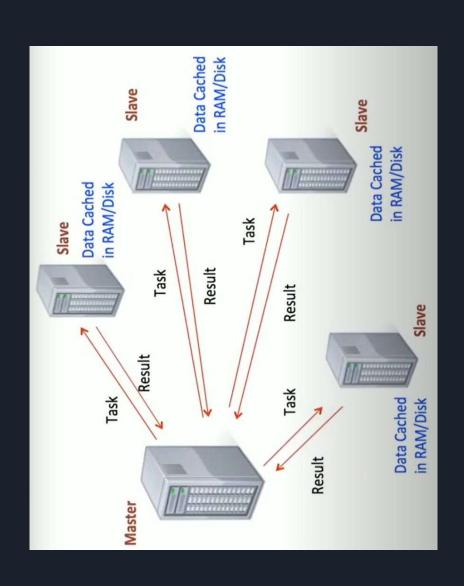
Packages



Execution in Spark



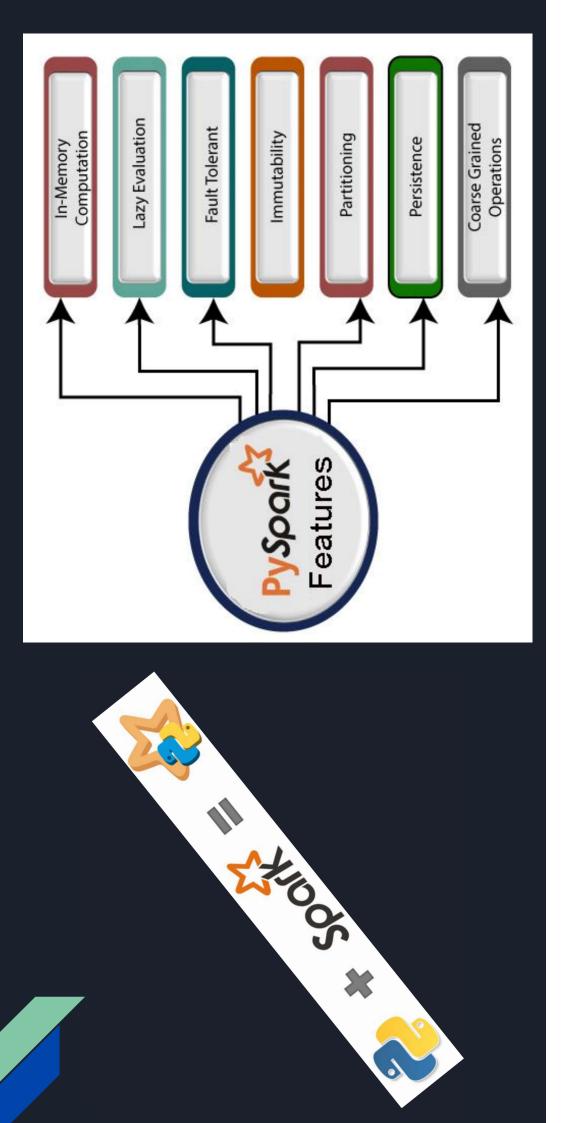
Master - Slave shakehand



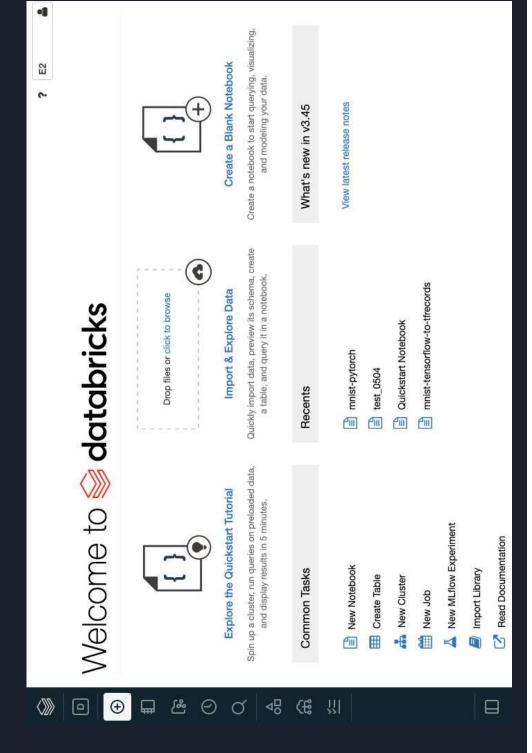
DW vs MR vs Spark



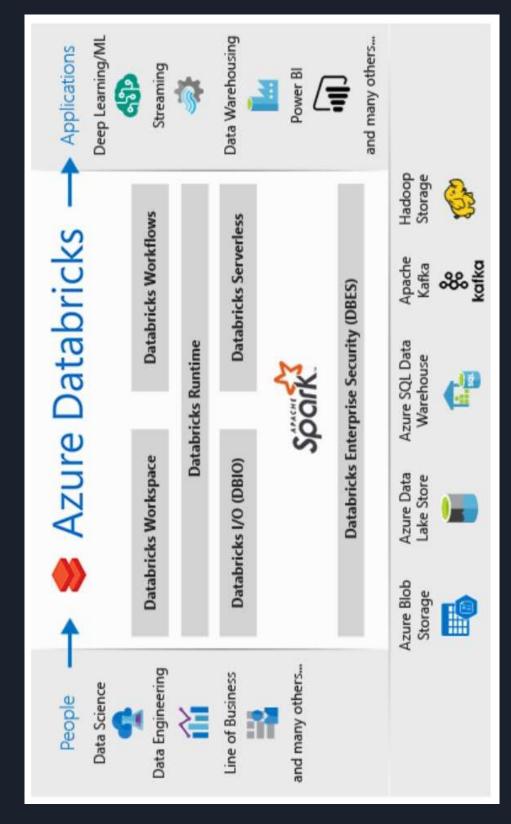
Python with Spark



Databricks



Databricks Workflow



What Next

- Setup and configure Python
- Code editors & IDEs Run the first programm
- Basic concepts of programming
- **Core Python**

