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RDDs vs. Dataframes vs. Datasets – What is the Difference and Why Should Data Engineers Care?

[LAKSHAY ARORA \(HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/AUTHOR/LAKSHAYARORA/\)](https://www.analyticsvidhya.com/blog/author/lakshayarora/), NOVEMBER 5, 2020 [LOGIN TO BOOKMARK THIS A...](#)

Article




Video Book

Overview

- Understand the difference between 3 spark APIs – RDDs, Dataframes, and Datasets
- We will see how to create RDDs, Dataframes, and Datasets



Introduction



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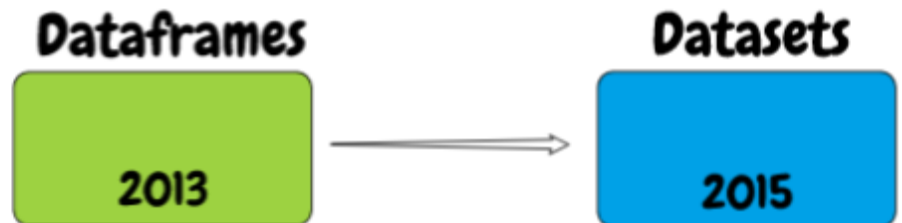
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3. What are Dataframes?
(<https://datahack.analyticsvidhya.com/contest/data-science-blogathon-6/>)
4. What are Datasets?
5. RDD vs Dataframes vs Datasets?
(<https://datahack.analyticsvidhya.com/contest/data-science-blogathon-6/>)

(<https://spark.apache.org/>) came into existence and it impressively developers. Developers have always loved it for providing simple and s on big data.



cept of RDDs, then in 2013 with Dataframes and later in 2015 with the depreciated, we can still use all of them. In this article, we will understand em.

What are RDDs?

RDDs or Resilient Distributed Datasets is the fundamental data structure of the Spark. It is the collection of objects which is capable of storing the data partitioned across the multiple nodes of the cluster and also allows them to do processing in parallel.

It is fault-tolerant if you perform multiple transformations on the RDD and then due to any reason any node fails. The RDD, in that case, is capable of recovering automatically.

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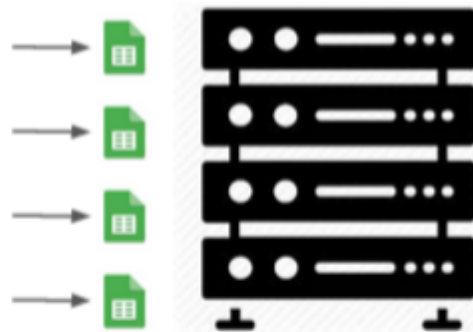
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 rdd_23.py (https://gist.github.com/lakshay-arora/a49924c2fd0e0387a5078de509a923cb#file-rdd_23-py) hosted with ❤ by GitHub (<https://github.com>)

RDD



When to use RDDs?

We can use RDDs in the following situations-

1. When we want to do low-level transformations on the dataset. Read more about RDD Transformations: [PySpark to perform Transformations \(https://www.analyticsvidhya.com/blog/2016/10/using-pyspark-to-perform-transformations-and-actions-on-rdd/utm_medium=What_is_the_Difference_between_RDDs_Dataframes_And_Datasets\)](https://www.analyticsvidhya.com/blog/2016/10/using-pyspark-to-perform-transformations-and-actions-on-rdd/utm_medium=What_is_the_Difference_between_RDDs_Dataframes_And_Datasets).
2. It does not automatically infer the schema of the ingested data, we need to specify the schema of each and every dataset when we create an RDD. Learn how to infer the schema to the RDD here: [Building Machine Learning Pipelines using PySpark \(https://www.analyticsvidhya.com/blog/2019/11/build-machine-learning-pipelines-pyspark/utm_medium=What_is_the_Difference_between_RDDs_Dataframes_And_Datasets\)](https://www.analyticsvidhya.com/blog/2019/11/build-machine-learning-pipelines-pyspark/utm_medium=What_is_the_Difference_between_RDDs_Dataframes_And_Datasets).

What are Dataframes?



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overcome the limitations of the Spark RDD. Spark Dataframes are the here, the data is organized into the named columns. They allow developers as not allowed with the RDDs.

various formats like CSV, JSON, AVRO, HDFS, and HIVE tables. It is already of the pre-processing tasks so that we do not need to write complex

purposes. If you want to read more about the catalyst optimizer I would cle: [Hands-On Tutorial to Analyze Data using Spark SQL](https://blackbeltyanalyticsvidhya.com/blog/2020/02/hands-on-tutorial-spark-sql-analyze-between-rdds-dataframes-and-datasets)

(<https://blackbeltyanalyticsvidhya.com/blog/2020/02/hands-on-tutorial-spark-sql-analyze-between-rdds-dataframes-and-datasets>)



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Spark.

data here, make sure to be consistent in the types.

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11 `df = df.withColumn('id', lit('id')) # add your column's label here`

12 `)`

view raw (<https://gist.github.com/lakshay-arora/9563dc134b2916db16fc431556d795fb/raw/a891b1241d3a246cc88ce8b9ea093834e9123f52/dataframe.py>)
dataframe.py (<https://gist.github.com/lakshay-arora/9563dc134b2916db16fc431556d795fb#file-dataframe-py>) hosted with ❤ by GitHub (<https://github.com>)

What are Datasets?

Spark Datasets is an extension of Dataframes API with the benefits of both RDDs and the Datasets. It is fast as well as provides a type-safe interface. Type safety means that the compiler will validate the data types of all the columns in the dataset while compilation only and will throw an error if there is any mismatch in the data types.





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Data Representation

Collection of data elements without any schema.

Optimization

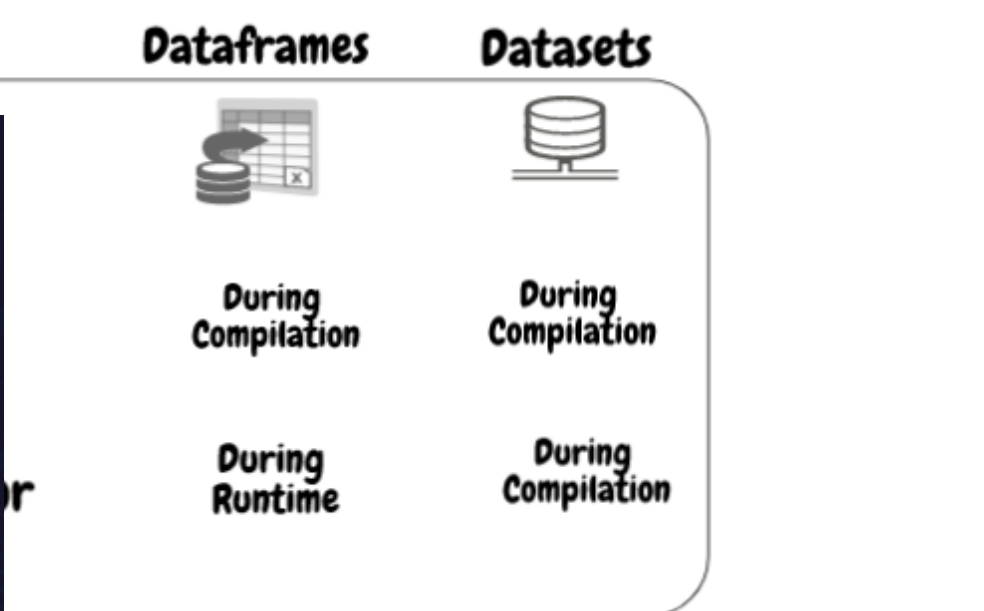
No in-built optimization engine for RDDs. Developers need to write the optimized code themselves.

Projection of Schema

Here, we need to define the schema manually.

Aggregation Operation

RDD is slower than both Dataframes and Datasets to perform simple operations like grouping the data.



code but it is faster than RDDs. It can efficiently process both structured

et. The dataset API is available only in Scala and Java only

Dataframes	Datasets
It is also the distributed collection organized into the named columns	It is an extension of Dataframes with more features like type-safety and object-oriented interface.
It uses a catalyst optimizer for optimization.	It also uses a catalyst optimizer for optimization purposes.
It will automatically find out the schema of the dataset.	It will also automatically find out the schema of the dataset by using the SQL Engine.
It provides an easy API to perform aggregation operations. It performs aggregation faster than both RDDs and Datasets.	Dataset is faster than RDDs but a bit slower than Dataframes.



End Notes



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between the three major APIs of Apache Spark. So to conclude, if you want safety then go for Dataframes or Datasets. If you need more control over the RDDs.

resources on Apache Spark to enhance your knowledge-

[Must Know Tool For all Big Data and Data Engineering Professionals](https://www.analyticsvidhya.com/blog/2020/10/getting-started-with-apache-spark/)

[https://2020/10/getting-started-with-apache-](https://www.analyticsvidhya.com/blog/2020/10/getting-started-with-apache-spark/)

[the difference between RDDs Dataframes And Datasets\)](https://www.analyticsvidhya.com/blog/2020/10/getting-started-with-apache-spark/)

[in Apache Spark Every Data Engineer Must Know!](https://www.analyticsvidhya.com/blog/2020/10/getting-started-with-apache-spark/)

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se share it with your friends, and also if you want to give any suggestions in the notes below.

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[must-know-spark-optimization-tips-](https://www.analyticsvidhya.com/blog/2020/11/must-know-spark-optimization-tips-when-deploying-spark/)



[can-you-optimize-your-spark-jobs-](https://www.analyticsvidhya.com/blog/2020/11/can-you-optimize-your-spark-jobs-when-deploying-spark/)

[machine-learning/](#)).

Introduction to Spark MLlib for Big Data and Machine Learning



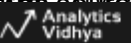
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[for-data-engineering-beginners/](#)).

8 Must Know Spark Optimization Tips for Data Engineering Beginners

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How Can You Optimize your Spark Jobs and Attain Efficiency - Tips and Tricks!
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Ideas have always excited me. The fact that we could dream of something and bring it to reality fascinates me. Computer Science provides me a window to do exactly that. I love programming and use it to solve problems and as a beginner in the field of Data Science.

in_(https://www.linkedin.com/in/lakshay-arora-262bb512a/)



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