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PySpark Tutorial

[PySpark Tutorial For Beginners \(https://sparkbyexamples.com/pyspark-tutorial/\)](https://sparkbyexamples.com/pyspark-tutorial/)

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[PySpark – Advantages \(https://sparkbyexamples.com/pyspark-tutorial/#advantages\)](https://sparkbyexamples.com/pyspark-tutorial/#advantages)

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[PySpark – Install on Windows \(https://sparkbyexamples.com/pyspark-tutorial/#pyspark-installation\)](https://sparkbyexamples.com/pyspark-tutorial/#pyspark-installation)

[PySpark – Web/Application UI \(https://sparkbyexamples.com/spark/spark-web-ui-understanding/\)](https://sparkbyexamples.com/spark/spark-web-ui-understanding/)

[PySpark – SparkSession \(https://sparkbyexamples.com/pyspark/pyspark-what-is-sparksession/\)](https://sparkbyexamples.com/pyspark/pyspark-what-is-sparksession/)

[PySpark – RDD \(https://sparkbyexamples.com/pyspark-rdd\)](https://sparkbyexamples.com/pyspark-rdd)

[PySpark – Parallelize \(https://sparkbyexamples.com/pyspark/pyspark-parallelize-create-rdd/\)](https://sparkbyexamples.com/pyspark/pyspark-parallelize-create-rdd/)

[PySpark – repartition\(\) vs coalesce\(\) \(https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/\)](https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/)

[PySpark – Broadcast Variables \(https://sparkbyexamples.com/pyspark/pyspark-broadcast-variables/\)](https://sparkbyexamples.com/pyspark/pyspark-broadcast-variables/)

[PySpark \(https://sparkbyexamples.com/pyspark-tutorial/\)](https://sparkbyexamples.com/pyspark-tutorial/)

[Hive \(https://sparkbyexamples.com/apache-hive-tutorial/\)](https://sparkbyexamples.com/apache-hive-tutorial/)

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[Kafka \(https://sparkbyexamples.com/apache-kafka-tutorials-with-examples/\)](https://sparkbyexamples.com/apache-kafka-tutorials-with-examples/)

[PySpark \(https://sparkbyexamples.com/category/pyspark/\)](https://sparkbyexamples.com/category/pyspark/)

[FAQ's \(Spark with Python\) PySpark DataFrame can be converted to Python Pandas DataFrame using a function](https://sparkbyexamples.com/faq/)

[questions to Pandas\(\) , In this article, I will explain how to create Pandas DataFrame from PySpark \(Spark\) DataFrame with examples](https://sparkbyexamples.com/faq/)

[More \(https://sparkbyexamples.com/\)](https://sparkbyexamples.com/)



Convert PySpark DataFrame to Pandas

PySpark

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Before we start first understand the main differences between the Pandas & PySpark, operations on Pyspark run faster than Pandas due to its distributed nature and parallel execution on multiple cores and machines.

[PySpark – Accumulator
\(https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/\)](https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/)

PySpark DataFrame

[PySpark – Create a DataFrame
\(https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/\)](https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/)

[PySpark – Create an empty DataFrame
\(https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/)

[PySpark – Convert RDD to DataFrame
\(https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/\)](https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/)

[PySpark – Convert DataFrame to Pandas
\(https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/\)](https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/)

[PySpark – show\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/\)](https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/)

[PySpark – StructType & StructField
\(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/\)](https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/)

[PySpark – Row Class
\(https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/)

[PySpark – Column Class
\(https://sparkbyexamples.com/pyspark/pyspark-column-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-column-functions/)

[PySpark – select\(\)
\(https://sparkbyexamples.com/pyspark/select-columns-from-pyspark-dataframe/\)](https://sparkbyexamples.com/pyspark/select-columns-from-pyspark-dataframe/)

[PySpark – collect\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-collect/\)](https://sparkbyexamples.com/pyspark/pyspark-collect/)

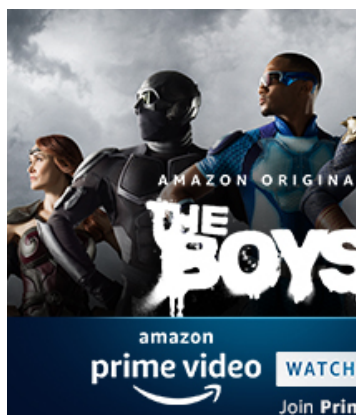
[PySpark – withColumn\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-withcolumn/\)](https://sparkbyexamples.com/pyspark/pyspark-withcolumn/)

In other words, pandas run operations on a single node whereas PySpark runs on multiple machines. If you are working on a Machine Learning application where you are dealing with larger datasets, PySpark processes operations many times faster than pandas.

After processing data in PySpark we would need to convert it back to Pandas DataFrame for a further procession with Machine Learning application or any Python applications.

Prepare PySpark DataFrame

In order to explain with an example first let's [create a PySpark DataFrame \(https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/\)](https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/).



```
import pyspark
from pyspark.sql import SparkSession

spark = SparkSession.builder.appName('PySpark') \
    .master('local[*]') \
    .getOrCreate()

data = [("James", "", "Smith", "36", "M", "USA"),
        ("Michael", "Rose", "", "40", "M", "USA"),
        ("Robert", "", "Williams", "35", "M", "USA"),
        ("Maria", "Anne", "Jones", "32", "F", "USA"),
        ("Jen", "Mary", "Brown", "28", "F", "USA")]

columns = ["first_name", "middle_name", "last_name", "age", "gender", "country"]
pysparkDF = spark.createDataFrame(data, schema=columns)
pysparkDF.printSchema()
pysparkDF.show(truncate=False)
```

[PySpark – withColumnRenamed\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/>).

[PySpark – where\(\) & filter\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-where-filter/>).

[PySpark – drop\(\) & dropDuplicates\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/>).

[PySpark – orderBy\(\) and sort\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-orderby-and-sort-explained/>).

[PySpark – groupBy\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/>).

[PySpark – join\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-join-explained-with-examples/>).

[PySpark – union\(\) & unionAll\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-union-and-unionall/>).

[PySpark – unionByName\(\).](#)
(<https://sparkbyexamples.com/spark/spark-merge-two-dataframes-with-different-columns/>).

[PySpark – UDF \(User Defined Function\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/>).

[PySpark – map\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-map-transformation/>).

[PySpark – flatMap\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-flatmap-transformation/>).

[pyspark – foreach\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-loop-iterate-through-rows-in-dataframe/#use-foreach-loop-through-dataframe>).

[PySpark – sample\(\) vs sampleBy\(\).](#)

This yields below schema and result of the DataFrame.

```
root
 |-- first_name: string (nullable = true)
 |-- middle_name: string (nullable = true)
 |-- last_name: string (nullable = true)
 |-- dob: string (nullable = true)
 |-- gender: string (nullable = true)
 |-- salary: long (nullable = true)

+-----+-----+-----+
|first_name|middle_name|last_name|
+-----+-----+-----+
|James    |           |Smith    |
|Michael  |Rose      |         |
|Robert   |           |William  |
|Maria    |Anne      |Jones    |
|Jen      |Mary      |Brown    |
+-----+-----+-----+
```

Convert PySpark DataFrame to Pandas DataFrame

PySpark DataFrame provides a method toPandas() to convert it Python Pandas DataFrame.

toPandas() results in the collection of all records in the PySpark DataFrame to the driver program and should be done on a small subset of the data. running on larger dataset's results in memory error and crashes the application.

```
pandasDF = pysparkDF.toPandas()
print(pandasDF)
```

This yields the below panda's dataframe. Note that pandas add a sequence number to the result.

[\(https://sparkbyexamples.com/pyspark/pyspark-sampling-example/\)](https://sparkbyexamples.com/pyspark/pyspark-sampling-example/)

[PySpark – fillna\(\) & fill\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/\)](https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/)

[PySpark – pivot\(\)_\(Row to Column\)
\(https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/)

[PySpark – partitionBy\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/\)](https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/)

[PySpark – ArrayType Column \(Array\).
\(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/)

[PySpark – MapType \(Map/Dict\).
\(https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/)

PySpark SQL Functions

[PySpark – Aggregate Functions
\(https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/)

[PySpark – Window Functions
\(https://sparkbyexamples.com/pyspark/pyspark-window-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-window-functions/)

[PySpark – Date and Timestamp Functions
\(https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/)

[PySpark – JSON Functions
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/)

PySpark Datasources

[PySpark – Read & Write CSV File
\(https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/)

[PySpark – Read & Write Parquet File
\(https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/\)](https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/)

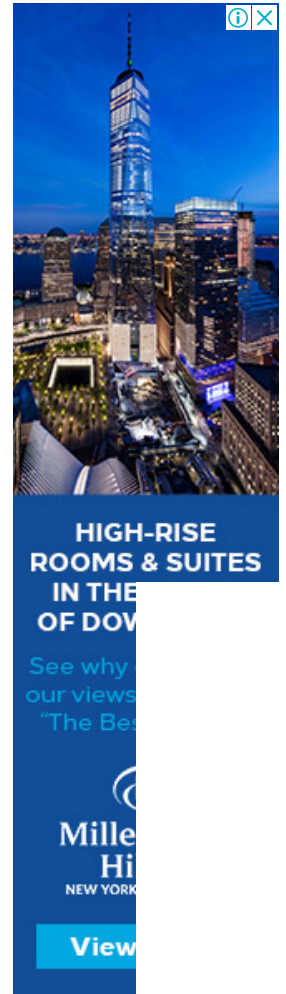
	first_name	middle_name	last_name
0	James		Smith
1	Michael	Rose	
2	Robert		Williams
3	Maria	Anne	Johnson
4	Jen	Mary	Brown

Convert Spark Nested Struct DataFrame to Pandas

Most of the time data in PySpark DataFrame will be in a structured format meaning one column contains other columns so let's see how it convert to Pandas. Here is an example with nested struct where we have firstname, middlename and lastname are part of the name column.

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[pyspark/pyspark-read-and-write-parquet-file/](#).

[PySpark – Read & Write JSON file](#)
(<https://sparkbyexamples.com/pyspark/pyspark-read-json-file-into-dataframe/>).

```
# Nested structure elements
from pyspark.sql.types import StructType, StructField, StringType, IntegerType

dataStruct = [
    (("James", "", "Smith"), 36636),
    (("Michael", "Rose", ""), 40288),
    (("Robert", "", "Williams"), 42114),
    (("Maria", "Anne", "Jones"), 39192),
    (("Jen", "Mary", "Brown"), 41298),
]
```

```
schemaStruct = StructType([
    StructField('name', StringType, True),
    StructField('first_name', StringType, True),
    StructField('middle_name', StringType, True),
    StructField('last_name', StringType, True),
    StructField('dob', IntegerType, True),
    StructField('gender', StringType, True),
    StructField('salary', IntegerType, True)
])

df = spark.createDataFrame(dataStruct, schemaStruct)
df.printSchema()

pandasDF2 = df.toPandas()
print(pandasDF2)
```

```
df = spark.createDataFrame(dataStruct, schemaStruct)
df.printSchema()

pandasDF2 = df.toPandas()
print(pandasDF2)
```

Converting structured DataFrame to pandas DataFrame results below output.


	name	dob
0	(James, , Smith)	36636
1	(Michael, Rose,)	40288
2	(Robert, , Williams)	42114
3	(Maria, Anne, Jones)	39192
4	(Jen, Mary, Brown)	41298

Conclusion

In this simple article, you have learned how to convert Spark DataFrame to pandas DataFrame using `toPandas()` function of the Spark DataFrame. Also, we have seen a similar example with complex nested structure elements.


The `toPandas()` results in the collection of all records in the DataFrame to the driver program and should be done on a small subset of the data.

Happy Learning !!




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PySpark Built-In Functions

[PySpark – when\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/>).

[PySpark – expr\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/>).

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[PySpark – lit\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/\)](https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/)

[PySpark – split\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/\)](https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/)

[PySpark – concat_ws\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-convert-array-column-to-string-column/\)](https://sparkbyexamples.com/pyspark/pyspark-convert-array-column-to-string-column/)

[Pyspark – substring\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/\)](https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/)

[PySpark – translate\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character)

[PySpark – regexp_replace\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#regexp_replace-replace-string-columns\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#regexp_replace-replace-string-columns)

[PySpark – overlay\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function)

[PySpark – to_timestamp\(\).
\(https://sparkbyexamples.com/spark/pyspark-to_timestamp-convert-string-to-timestamp-type/\)](https://sparkbyexamples.com/spark/pyspark-to_timestamp-convert-string-to-timestamp-type/)

[PySpark – to_date\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-to_date-convert-timestamp-to-date/\)](https://sparkbyexamples.com/pyspark/pyspark-to_date-convert-timestamp-to-date/)

[PySpark – date_format\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-date_format-convert-date-to-string-format/\)](https://sparkbyexamples.com/pyspark/pyspark-date_format-convert-date-to-string-format/)

[PySpark – datediff\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff\)](https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff)

[PySpark – months_between\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months_between\(\)\)](https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months_between())

Reference:

<https://docs.databricks.com/spark/latest/spark-sql/spark-pandas.html>
(<https://docs.databricks.com/spark/latest/spark-sql/spark-pandas.html>)

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[PySpark – explode\(\).](https://sparkbyexamples.com/py-spark/pyspark-explode-nested-array-into-rows/)
(<https://sparkbyexamples.com/py-spark/pyspark-explode-nested-array-into-rows/>).

[PySpark – array_contains\(\).](https://sparkbyexamples.com/py-spark/pyspark-arraytype-column-with-examples/#array_contains)
(https://sparkbyexamples.com/py-spark/pyspark-arraytype-column-with-examples/#array_contains).

[PySpark – array\(\).](https://sparkbyexamples.com/py-spark/pyspark-arraytype-column-with-examples/#array)
(<https://sparkbyexamples.com/py-spark/pyspark-arraytype-column-with-examples/#array>).

[PySpark – collect_list\(\).](https://sparkbyexamples.com/py-spark/pyspark-aggregate-functions/#collect-list)
(<https://sparkbyexamples.com/py-spark/pyspark-aggregate-functions/#collect-list>).

[PySpark – collect_set\(\).](https://sparkbyexamples.com/py-spark/pyspark-aggregate-functions/#collect-set)
(<https://sparkbyexamples.com/py-spark/pyspark-aggregate-functions/#collect-set>).

[PySpark – create_map\(\).](https://sparkbyexamples.com/py-spark/pyspark-convert-dataframe-columns-to-maptype-dict/)
(<https://sparkbyexamples.com/py-spark/pyspark-convert-dataframe-columns-to-maptype-dict/>).

[PySpark – map_keys\(\).](https://sparkbyexamples.com/py-spark/pyspark-maptype-dict-examples/#map_keys)
(https://sparkbyexamples.com/py-spark/pyspark-maptype-dict-examples/#map_keys).

[PySpark – map_values\(\).](https://sparkbyexamples.com/py-spark/pyspark-maptype-dict-examples/#map_values)
(https://sparkbyexamples.com/py-spark/pyspark-maptype-dict-examples/#map_values).

[PySpark – struct\(\).](https://sparkbyexamples.com/py-spark/pyspark-structtype-and-structfield/#update-struct-function)
(<https://sparkbyexamples.com/py-spark/pyspark-structtype-and-structfield/#update-struct-function>).

[PySpark – countDistinct\(\).](https://sparkbyexamples.com/py-spark/pyspark-count-distinct-from-dataframe/)
(<https://sparkbyexamples.com/py-spark/pyspark-count-distinct-from-dataframe/>).

[PySpark – sum\(\).avg\(\).](https://sparkbyexamples.com/py-spark/pyspark-dataframe-groupby-and-sort-by-descending-order/)
(<https://sparkbyexamples.com/py-spark/pyspark-dataframe-groupby-and-sort-by-descending-order/>).

[PySpark – row_number\(\).](https://sparkbyexamples.com/py-spark/pyspark-window-functions/#row_number)
(https://sparkbyexamples.com/py-spark/pyspark-window-functions/#row_number).

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[PySpark – rank\(\).](#)
(<https://sparkbyexamples.com/py-spark/pyspark-window-functions/#rank>).

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[PySpark – dense_rank\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-window-functions/#dense_rank\)](https://sparkbyexamples.com/py-spark/pyspark-window-functions/#dense_rank)

[PySpark – percent_rank\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-window-functions/#percent_rank\)](https://sparkbyexamples.com/py-spark/pyspark-window-functions/#percent_rank)

[PySpark – typedLit\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-lit-add-literal-constant/#typedlit\)](https://sparkbyexamples.com/py-spark/pyspark-lit-add-literal-constant/#typedlit)

[PySpark – from_json\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#from_json\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#from_json)

[PySpark – to_json\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#to_json\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#to_json)

[PySpark – json_tuple\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#json_tuple\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#json_tuple)

[PySpark – get_json_object\(\).
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[PySpark – schema_of_json\(\).
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