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PySpark Tutorial

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PySpark flatMap() Transformation

PySpark flatMap() is a transformation operation that flattens the RDD/DataFrame (array/map DataFrame columns) after applying the function on every element and returns a new PySpark RDD/DataFrame. In this article, you will learn the syntax and usage of the PySpark flatMap() with an example.

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[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/)

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\(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/\)](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/)

```
data = ["Project Gutenberg's",
        "Alice's Adventures in Wonderland",
        "Project Gutenberg's",
        "Adventures in Wonderland",
        "Project Gutenberg's"]

rdd=spark.sparkContext.parallelize(data)
for element in rdd.collect():
    print(element)
```

This yields the below output

```
Project Gutenberg's
Alice's Adventures in Wonderland
Project Gutenberg's
Adventures in Wonderland
Project Gutenberg's
```

flatMap() Syntax

```
flatMap(f, preservesPartitioning)
```

flatMap() Example

Now, let's see with an example of how to apply a flatMap() transformation on RDD. On the below example, first, it splits each record by space in an RDD and finally flattens it. Resulting RDD consists of a single word on each record.

```
rdd2=rdd.flatMap(lambda x: x.split(' '))
for element in rdd2.collect():
    print(element)
```

This yields below output.



[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\(\).](#)

```
Project
Gutenberg's
Alice's
Adventures
in
Wonderland
Project
Gutenberg's
Adventures
in
Wonderland
Project
Gutenberg's
```

Complete PySpark

flatMap() example

Below is the complete example of flatMap() function that works with RDD.

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName('FlatMap').getOrCreate()

data = ["Project Gutenberg's",
        "Alice's Adventures in Wonderland",
        "Project Gutenberg's",
        "Adventures in Wonderland",
        "Project Gutenberg's"]

rdd=spark.sparkContext.parallelize(data)
for element in rdd.collect():
    print(element)

#Flatmap
rdd2=rdd.flatMap(lambda x: x.split(' '))
for element in rdd2.collect():
    print(element)
```

Using flatMap() transformation on DataFrame

Unfortunately, PySpark DataFrame doesn't have flatMap() transformation however, DataFrame has [explode\(\) SQL function](#) that is used to flatten the column
(<https://sparkbyexamples.com/pyspark/>)

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

[pyspark-explode-array-and-map-columns-to-rows/](#)). Below is a complete example.

```
import pyspark
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName('Explode').getOrCreate()

arrayData = [
    ('James', ['Java', 'Scala']),
    ('Michael', ['Spark', 'Java']),
    ('Robert', ['CSharp', '']),
    ('Washington', None, None),
    ('Jefferson', ['1', '2']),
]

df = spark.createDataFrame(data=arrayData, schema=StructType([
    StructField('name', StringType, True),
    StructField('knownLanguages', ArrayType(StringType), True)
]))

from pyspark.sql.functions import explode
df2 = df.select(df.name, explode(df.knownLanguages))
df2.printSchema()
df2.show()
```

This example flattens the array column “knownLanguages” and yields below output

```
root
|-- name: string (nullable = true)
|-- col: string (nullable = true)

+-----+-----+
|   name|   col|
+-----+-----+
|   James|  Java|
|   James| Scala|
| Michael| Spark|
| Michael|  Java|
| Michael| null |
| Robert |CSharp|
| Robert |     |
|Jefferson|    1 |
|Jefferson|    2 |
+-----+-----+
```

Conclusion

In conclusion, you have learned how to apply a PySpark flatMap() transformation to flattens the array or map columns and also learned how to use alternatives for DataFrame.

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

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



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PySpark Built-In Functions

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

Reference

https://docs.azuredatabricks.net/_static/notebooks/flat-map-transformer-example.html
https://docs.azuredatabricks.net/_static/notebooks/flat-map-transformer-example.html



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[PySpark – split\(\).
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[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\(\).
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[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())

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

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

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

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

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

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

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

[PySpark – sum\(\).avg\(\).](https://sparkbyexamples.com/pyspark/pyspark-dataframe-groupby-and-sort-by-descending-order/)
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[PySpark – row_number\(\).](https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row_number)
(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row_number).

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

[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)

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

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

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\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#schema_of_json\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#schema_of_json)

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