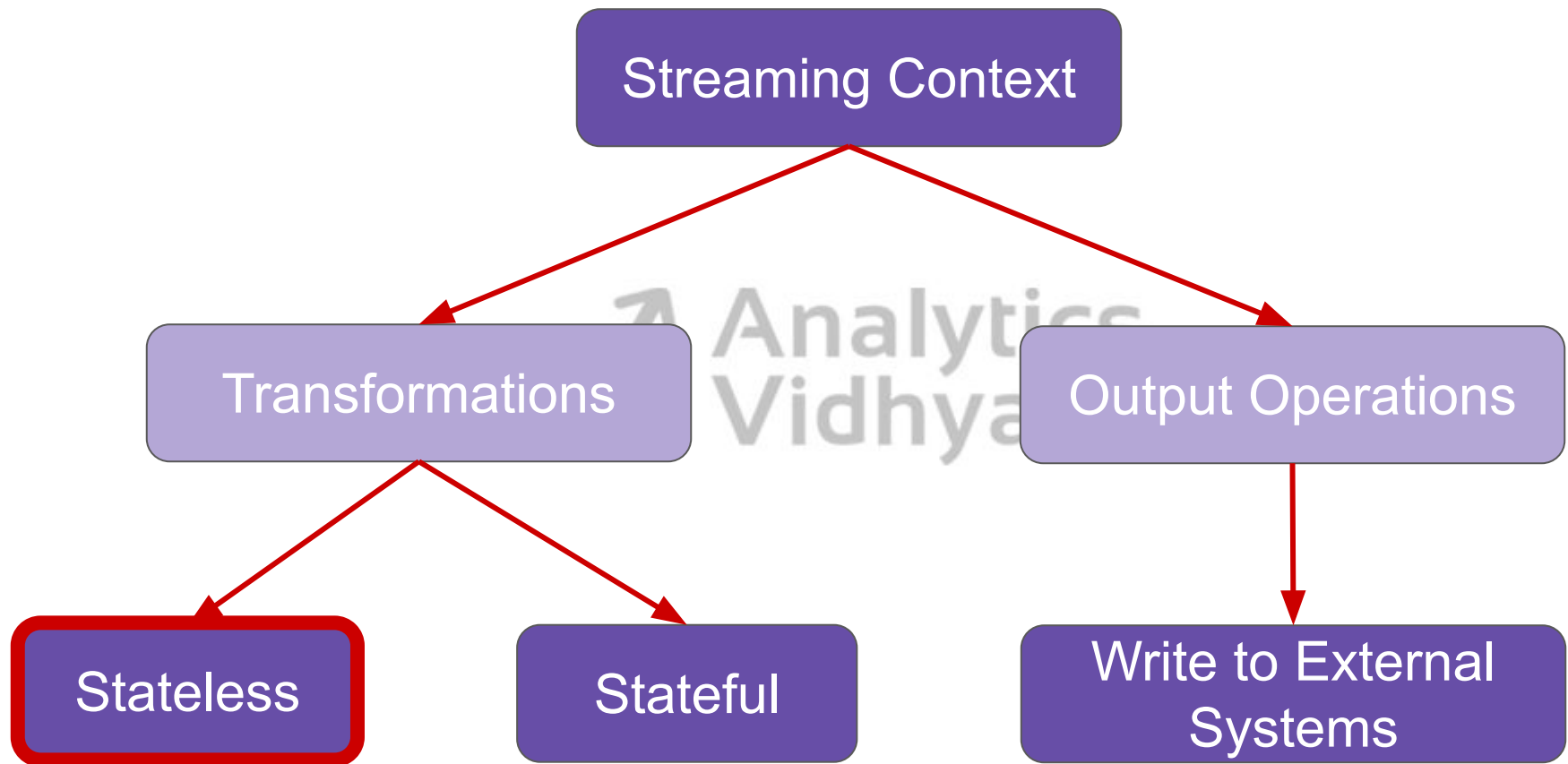


Stateless Transformations



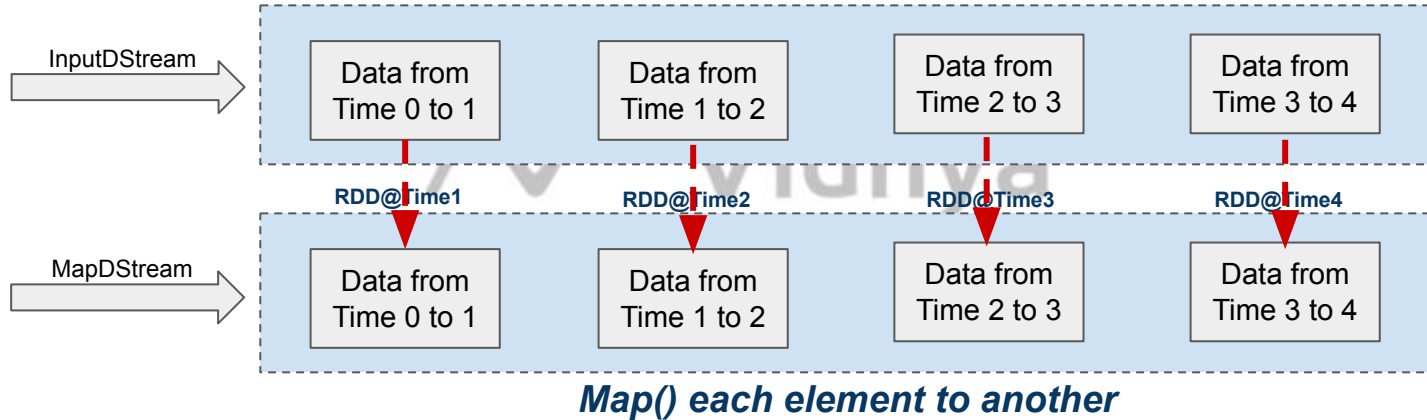


Stateless Transformations

- Processing of each batch has no dependency on the data of previous batches
- Similar to that of RDDs applied on every batch
 - **map(), filter(), reduceByKey()** etc
 - **cogroup(), join(), leftOuterJoin** etc

Stateless Transformations

- Performing **operations** on **DStreams** is equivalent to performing operations on underlying RDD operations on each batch



Transformations

map(func)

Return a new DStream by passing each element of the source DStream through a function func



Transformations

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Transformations

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filter(func)	Return a new DStream by selecting only the records of the source DStream on which func returns true
union(otherStream)	Return a new DStream that contains the union of the elements of the source DStream and the otherDStream
join(otherStream)	When called on two DStreams of (k,v) and (k,w) pairs, return a new DStream of (k,(v,w)) pairs with all pairs of elements for each key

Transformations

Few more Transformations:

- `count()`
- `reduce()`
- `cogroup()`
- `countByValue()`
- `reduceByKey()`
- `transform()`



 Thank You
Analytics
Vidhya