A Gentle Introduction to Spark 2.0.

Based on Madhukara Phatak posts at http://blog.madhukaraphatak.com/categories/spark-two/.

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Datasets

- Dataset the new abstraction of Spark.
 - Replace RDD as standard abstraction layer.
 - Dataframe API becomes its subset.
 - [LowLevel] RDD API \longrightarrow Dataframe API \longrightarrow Dataset [HighLevel]

Spark

SparkSession

- SparkSession New entry point of Spark
 - Replace SparkContext as standard entry point.
 - Combine SQLContext, HiveContext and future StreamingContext.

Spark

Creating SparkSession

Demo at https://tinyurl.com/demospark



4 / 6

Introduction to Dataset

- A Dataset is a strongly typed collection of domain-specific objects that can be transformed in parallel using functional or relational operations.
- Each Dataset also has an untyped view called a DataFrame, which is a Dataset of Row.

5 / 6

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Introduction to Dataset

- RDD represents an immutable,partitioned collection of elements that can be operated on in parallel
- The major difference is, Dataset is collection of domain specific objects where as RDD is collection of any object.

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