

Introduction to PySpark

By Pratik Parmar

Agenda

- Introduction to Spark
- Spark with Python
 - PySpark Shell
 - IPython/Jupyter notebooks
 - Python Scripts

What is Apache Spark?

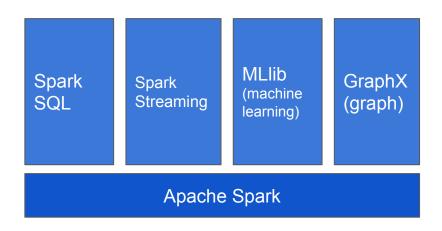
- Apache Spark™ is a fast and general engine for large scale data processing.
- Originally, developed in AMPLab at UC Berkely (2009), open sourced in 2010, transferred to Apache 2013.
- Claims to run programs upto 100x faster than Hadoop MapReduce in memory, or 10x faster on disk.

Advantages over MapReduce

- Speed
- Ease of use Scala, Java, Python, R
- Generality Supports different use cases.
- Runs everywhere Hadoop, Mesos, Standalone ...

Spark Components

- Spark SQL and DataFrames
- Spark Machine Learning (MLlib)
- GraphX
- Spark Streaming



Talk is Cheap. Show me the code.

Linus Torvalds

Resources

- http://spark.apache.org/documentation.html
- https://databricks.com/spark/developer-resources
- http://spark-packages.org

Pratik Parmar

Twitter: @hackyroot

GitHub: @hackyroot



Thank You!!!

