BDA Lab 11

Your goal is to run Spark with a simple application that will read a file, store its content in a dataframe, and display the result. You will learn how to set up your working environment. You will also learn how to interact with Spark and do basic operations.

Install Spark Locally on your Machine Documentation @ https://pypi.org/project/pyspark/ Guide @ https://medium.com/tinghaochen/how-to-install-pyspark-locally-94501eefe421

- 1. Install Scala
- 2. Install Spark
- 3. Install Pyspark
- 4. Build a Spark context
- 5. Ingest books.csv by reading it into Spark Data Frame using:

session.read.csv(header=True, inferSchema=True, path=absolute file path)

6. Display first 5 rows

++				·+
id	authorId	title	releaseDate	link
++			- 	+
1	1	Fantastic Beasts	11/18/16	http://amzn.to/2k
2	1	Harry Potter and	10/6/15	http://amzn.to/21
3	1	The Tales of Beed	12/4/08	http://amzn.to/2k
4	1	Harry Potter and	10/4/16	http://amzn.to/2k
5	2	Informix 12.10 on	4/23/17	http://amzn.to/2i
++				

only showing top 5 rows

Outcomes:

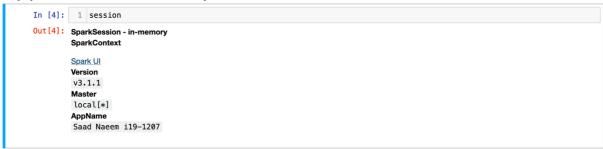
Although the example is simple, you would have accomplished the following:

- Installed all the components you need to work with Spark. (Yes, it is that easy!)
- Created a session where code can be executed.
- Loaded a CSV data file.

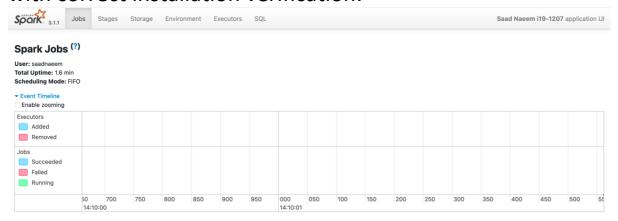
• Displayed five rows of this dataset.

Requirements:

AppName would be your Name and Roll Number:



Click on Spark UI to get the following screen shot that confirms the system user and the application name along with correct installation verification:



Finally, the Spark DataFrame showing the records:



Do Not cut/leave out any part of the screenshot.