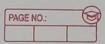
# PySpark Assignment 2

Pratik Wani

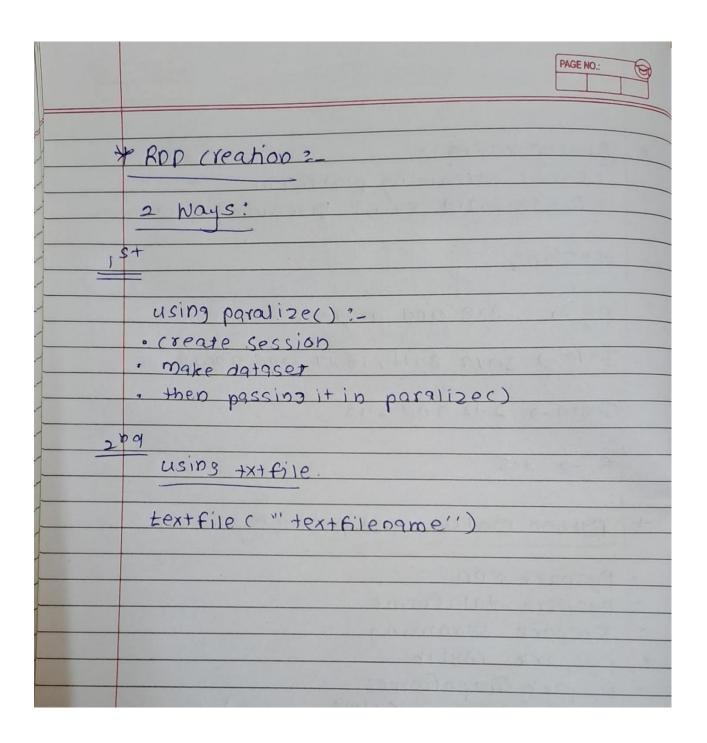
• Hand Written Notes:

	Topics
	- Small
9	pyspark intro and setting up environment
•	Handson pyspark.
	ROD and transformation
•	Hands on - transforming data and RDD
	Distract Purpose in - memory distract (
*	Apache pyspark?
	total a taken bay a strong a second
	· Library written in python
	· useful run python applications using
	Apache Spark. &
	· Python API
27/2	· Analytical processing engine
	The grant of the state of the s

	PAGE NO.:
*	Apache spark?
	· Unified Analytical engine used for large
	dataset
	· faster
	· can run on single node or multiple nodes
	In memory processing.
	· In memory processing · Numpy + Tenser Flow
*	Features:
	35.85
	In memory computation
	Distributed processing
	immutable
	lazy evalution
S	Supports ANSI SQL
6	cache and persistance.
9	can be used with different cluster
	manages
	managed pictures has article at que
out:	Advantages'-
	The state of the s
1)	Factor processing
2)	general purpose in-memory distributed processing
	engine that allows you to process days
	efficiently indistributed fashion.
3>	use for data igngestion pipeline
4	use to process real time data using
11	Streaming and katka



	PAGE NO.:
*	Apache kafka:-
	· Event Streaming platform
	· Distributed event streaming platform.
	versions
	VC V SIGIT S
	py - 3.8 and above
	Java - Java 8,11,13,17 and above
	7 3 3 1 C 3 D 5 1 1 C C 4 3 D 7 D 3 ST 1
	Sm19 - 2.12 and 2.13
	R -> 3.5
+	python modwes and package:
	Pyspark RDD
	Pyspark delaframe
	pyspark straming
	pyspark Mylib
	pyspark Graph frames
•	Pyspark Resource (NOD in 3:0)
7	commands:
	Read data from file
	-> create +x+ file
	- val filepath: " path."
	-) val text RPD = SC-textile (Riepath)
	-> text PDP. collect ()
	- Company of the Comp



- Codes:
- Jupyter Notebook:

#### o Read CSV

```
In [1]: import pyspark

In [2]: from pyspark.sql import SparkSession

In [3]: spark = SparkSession.builder.appName("practice").getOrCreate()

In [4]: spark

Out[4]: SparkSession.in-memory
SparkContext

Spark UI
Version
v3.5.0
Master
local[7]
AppName
practice

In [10]: df = spark.read.csv('student_salary_info.csv')
df

Out[10]: DataFrame[_c0: string, _c1: string, _c2: string]

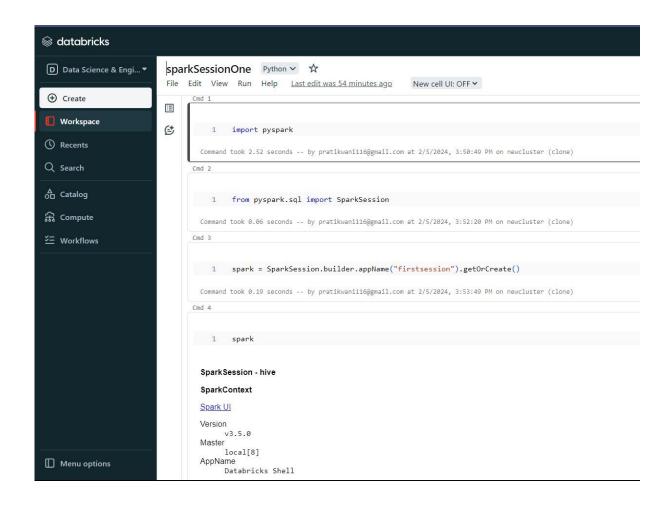
In [11]: df.show(

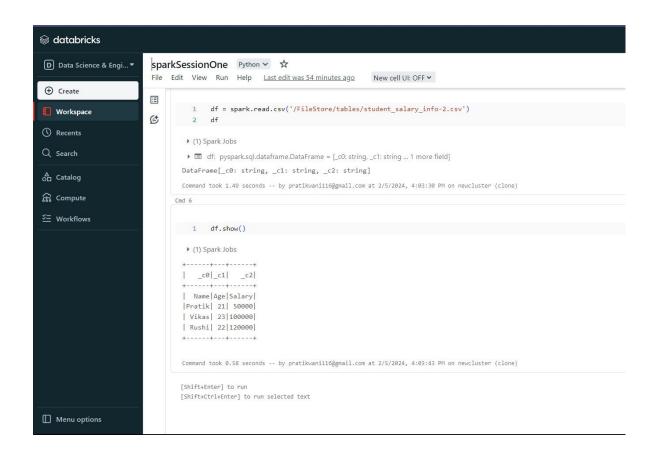
In [11]: value | Color |
```

#### Using Paralize()

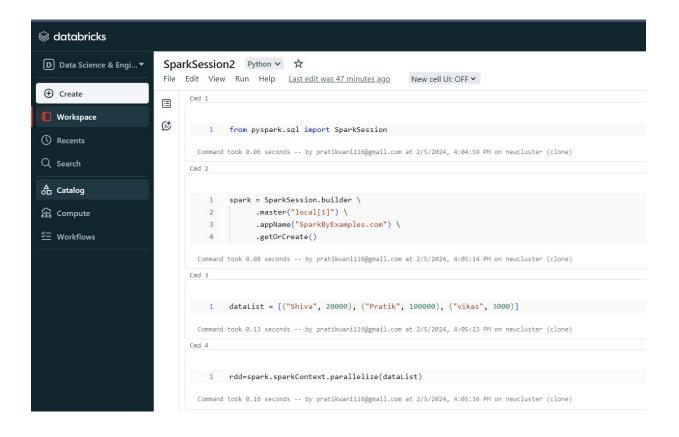
#### Databricks:

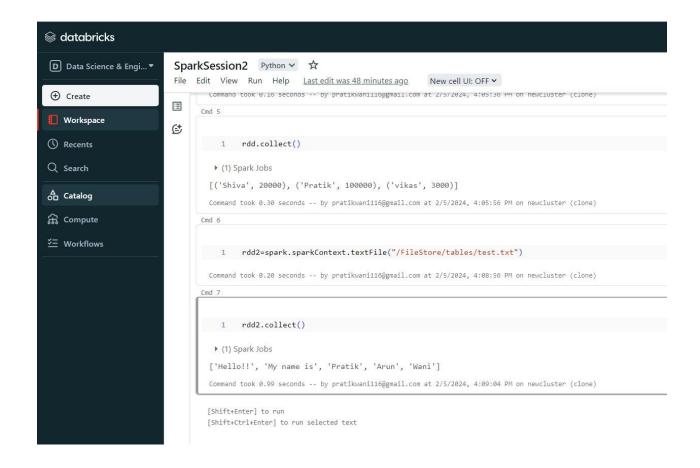
#### Read CSV





### o Using Paralize()





## • Local Host 4040/jobs

