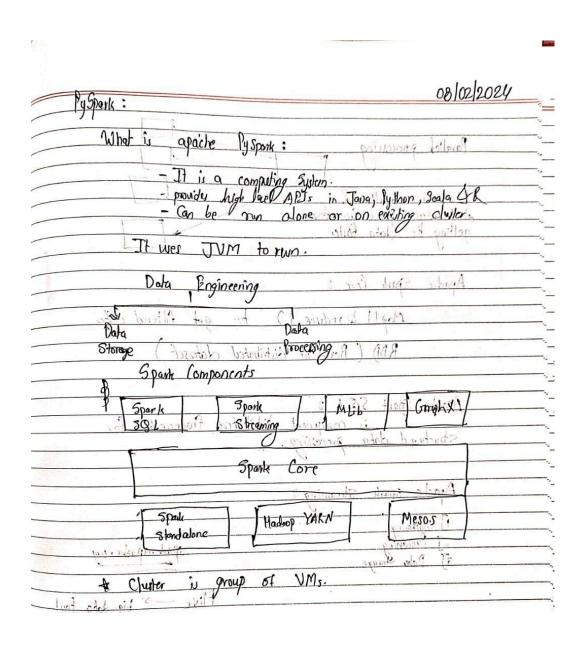
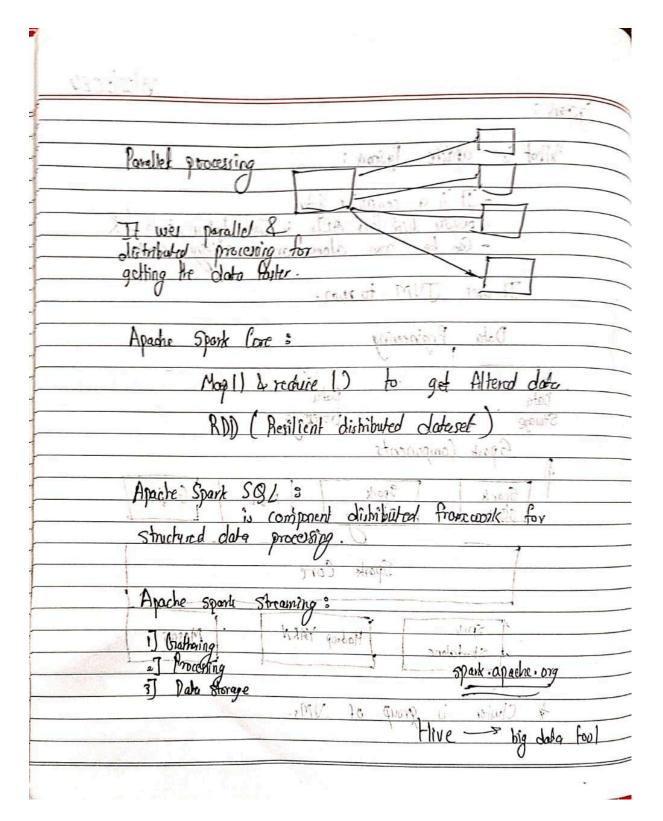
Name: Parth Nandedkar

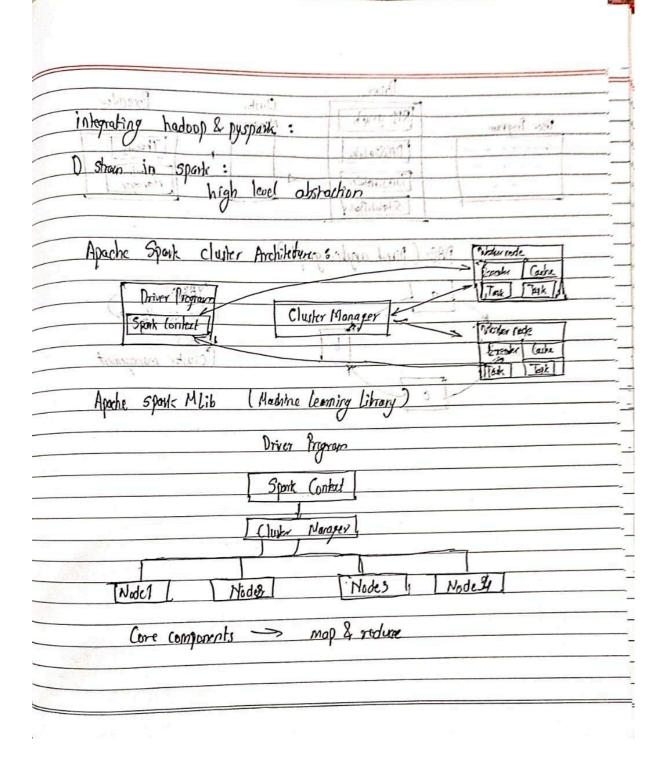
Date: 02 Feb 2024

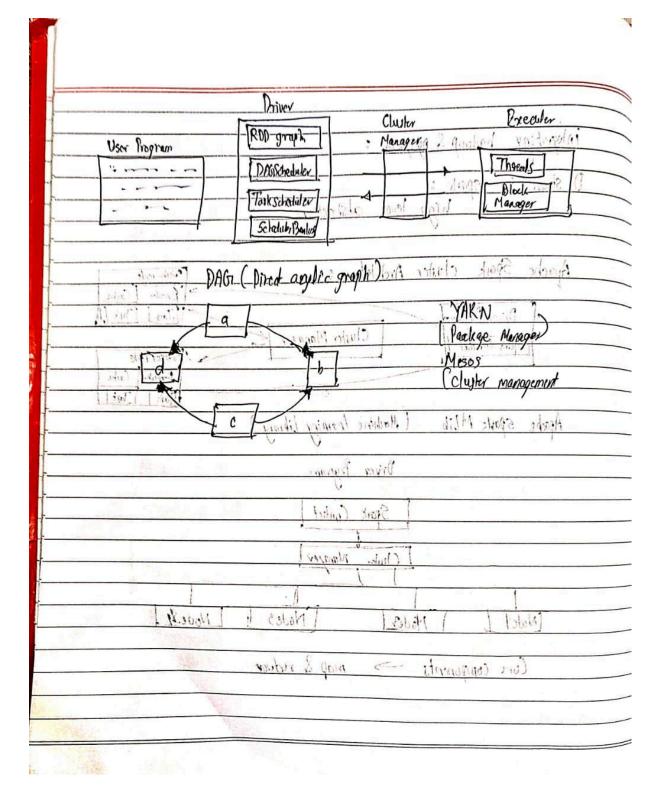
Topics: Introduction to Pyspark Batch: Data Engineering Batch-1

Hand written notes during the session:









Installing Required Softwares:

- Java:

As java was already installed on my computer checked as if it is working fine or not.

```
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ADMIN>java --version
openjdk 11.0.20 2023-07-18 LTS
OpenJDK Runtime Environment Corretto-11.0.20.8.1 (build 11.0.20+8-LTS)
OpenJDK 64-Bit Server VM Corretto-11.0.20.8.1 (build 11.0.20+8-LTS, mixed mode)

C:\Users\ADMIN>
```

- Python:

Python was also installed in the system also checked version for it.

```
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ADMIN>java --version
openjdk 11.0.20 2023-07-18 LTS
OpenJDK Runtime Environment Corretto-11.0.20.8.1 (build 11.0.20+8-LTS)
OpenJDK 64-Bit Server VM Corretto-11.0.20.8.1 (build 11.0.20+8-LTS, mixed mode)

C:\Users\ADMIN>python --version
Python 3.12.1

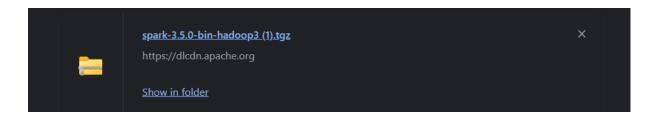
C:\Users\ADMIN>
```

Apache PySpark:

From URL:

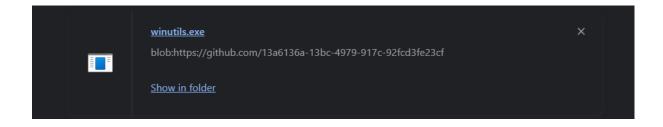
https://www.apache.org/dyn/closer.lua/spark/spark-3.5.0/spark-3.5.0-bin-hadoop3.tgz

Downloaded the zip file:

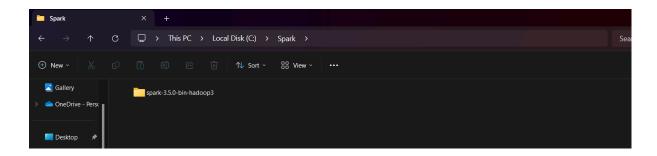


For hadoop:

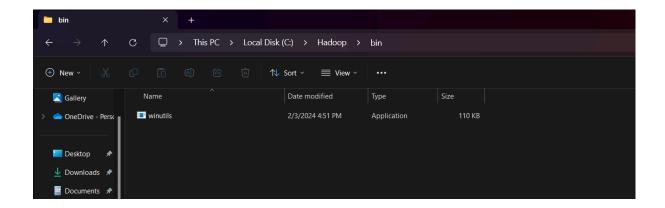
Downloaded the winutils.exe file:



Then extracted the tbz file in my C:/Spark/

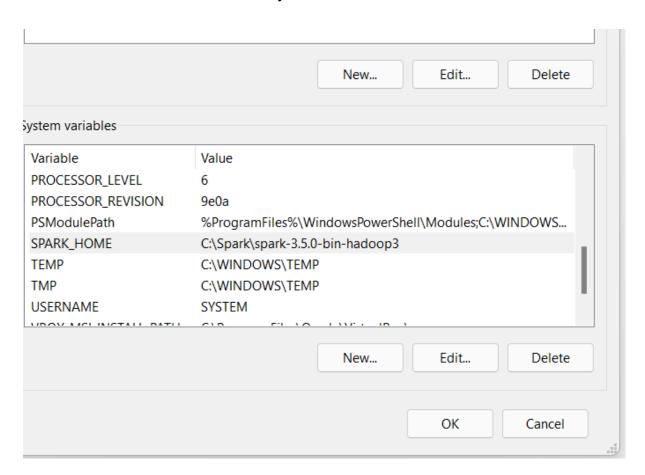


And for hadoop file created directory : C:/Hadoop/bin :



Setting environment variables:

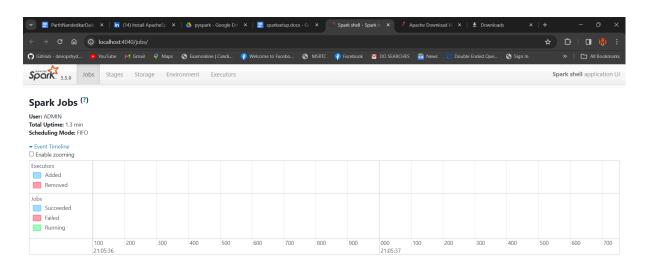
Added environment variables in system variables :



| Variable | Value |
|-----------------------|--|
| DriverData | C:\Windows\System32\Drivers\DriverData |
| HADOOP_HOME | C:\Hadoop\bin |
| JAVA_HOME | C:\Program Files\Amazon Corretto\jdk11.0.20_8 |
| NUMBER_OF_PROCESSORS | 8 |
| OS | Windows_NT |
| Path | C:\Program Files\Amazon Corretto\jdk11.0.20_8\bin;C:\Windo |
| PATHEXT | .COM;,EXE;,BAT;,CMD;,VBS;,VBE;,JS;,JSE;,WSF;,WSH;,MSC |
| BOWERCHELL BICTRIBUTE | MODEL T AVII C. L.I. |

Then on Powershell started shell service:

Then on browser by entering URL: http://localhost:4040/jobs/:



Got Apache Spark service running.