

I'M TAKING THE



14 DAYS AI CHALLENGE



#DatabricksWithIDC



14 DAYS

AI CHALLENGE

DAY 01

Topic:

Platform Setup & First Steps

Challenge:

1. Create Databricks Community Edition account
2. Navigate Workspace, Compute, Data Explorer
3. Create first notebook
4. Run basic PySpark commands

#DatabricksWithIDC



04:06 PM (28s)

1

Python



```
%pip install kaggle
```

Configure Kaggle API

▶ 04:08 PM (<1s)

3

```
import os

os.environ["KAGGLE_USERNAME"] = "souvanikchaudhury"
os.environ["KAGGLE_KEY"] = "b27df572e24f5ef21668f11a564bf1a4"

print("Kaggle credentials configured!")

Kaggle credentials configured!
```

Create Schema

▶ ✓ 04:09 PM (3s)

```
spark.sql("""  
CREATE SCHEMA IF NOT EXISTS workspace.ecommerce  
""")
```

▶ ⓘ See performance (1)

DataFrame[]

5

Create Volume



▶ ✓ 04:11 PM (1s)

```
spark.sql("""  
CREATE VOLUME IF NOT EXISTS workspace.ecommerce.ecommerce_data  
""")
```

▶ ⓘ See performance (1)

7

DataFrame[]

Download Dataset to Volume

▶ ✓ 04:12 PM (28s)

9

```
%sh  
cd /Volumes/workspace/e-commerce/e-commerce_data  
kaggle datasets download -d mkechinov/e-commerce-behavior-data-from-multi-category-store
```

Dataset URL: <https://www.kaggle.com/datasets/mkechinov/e-commerce-behavior-data-from-multi-category-store>

License(s): copyright-authors

Downloading ecommerce-behavior-data-from-multi-category-store.zip to /Volumes/workspace/e-commerce/e-commerce_data

100% [██████] 4.29G/4.29G [00:26<00:00, 176MB/s]

Unzip Dataset

▶ ✓ 04:13 PM (3m)

11

Python ⚡ [] ::

```
%sh  
cd /Volumes/workspace/e-commerce/e-commerce_data  
unzip -o ecommerce-behavior-data-from-multi-category-store.zip  
ls -lh
```

Archive: ecommerce-behavior-data-from-multi-category-store.zip

```
inflating: 2019-Nov.csv  
inflating: 2019-Oct.csv
```

total 18G

```
-rwxrwxrwx 1 spark-f3ac2c7a-ca17-48b2-b58a-61 nogroup 8.4G Jan  9 10:43 2019-Nov.csv
```

Remove ZIP (keep CSVs)

04:22 PM (1s) 13 Python

```
%sh
cd /Volumes/workspace/e-commerce/e-commerce_data
rm -f ecommerce-behavior-data-from-multi-category-store.zip
ls -lh

total 14G
-rwxrwxrwx 1 spark-f3ac2c7a-ca17-48b2-b58a-61 nogroup 8.4G Jan  9 10:43 2019-Nov.csv
-rwxrwxrwx 1 spark-f3ac2c7a-ca17-48b2-b58a-61 nogroup 5.3G Jan  9 10:46 2019-Oct.csv
```

Read Code (CSV File)

04:31 PM (58s) 15

```
oct_events = spark.read.csv(
    "/Volumes/workspace/e-commerce/e-commerce_data/2019-Oct.csv",
    header = True,
    inferSchema = True
)
```

```
nov_events.display()  
> See performance (1)
```

Table + Q Y E

	event_time	event_type	product_id	category_id	category_code	brand	price	user
5	2019-11-01T00:00:01.000+00:00	view	1004775	20530135556318826...	electronics.smartphone	xiaomi	183.27	55
6	2019-11-01T00:00:01.000+00:00	view	1306894	20530135589202171...	computers.notebook	hp	360.09	52
7	2019-11-01T00:00:01.000+00:00	view	1306421	20530135589202171...	computers.notebook	hp	514.56	51
8	2019-11-01T00:00:02.000+00:00	view	15900065	20530135581904082...	null	rondell	30.86	51
9	2019-11-01T00:00:02.000+00:00	view	12708937	20530135535598963...	null	michelin	72.72	53
10	2019-11-01T00:00:02.000+00:00	view	1004258	20530135556318826...	electronics.smartphone	apple	732.07	53
11	2019-11-01T00:00:03.000+00:00	view	17200570	20530135597926324...	furniture.living_room.sofa	null	437.33	51
12	2019-11-01T00:00:03.000+00:00	view	2701517	20530135639114392...	appliances.kitchen.refrigerators	null	155.11	51
13	2019-11-01T00:00:03.000+00:00	view	16700260	20530135599016843...	furniture.kitchen.chair	null	31.64	56
14	2019-11-01T00:00:04.000+00:00	view	34600011	20609813205819064...	null	null	20.54	51
15	2019-11-01T00:00:05.000+00:00	view	4600658	20530135639449936...	appliances.kitchen.dishwasher	samsung	411.83	52
16	2019-11-01T00:00:06.000+00:00	view	24900193	20530135621833858...	null	null	1.09	51
17	2019-11-01T00:00:07.000+00:00	view	27400066	20530135633913454...	null	null	8.55	55
18	2019-11-01T00:00:07.000+00:00	view	5100503	20530135533753469...	null	xiaomi	22.68	52



04:33 PM (1s)

17



```
oct_events.display()  
> See performance (1)
```

Table

+

Q Y E □

	event_time	event_type	product_id	category_id	category_code	brand	price	user
1	2019-10-01T00:00:00.000+00:00	view	44600062	21038074595953877...	null	shiseido	35.79	54
2	2019-10-01T00:00:00.000+00:00	view	3900821	20530135523267709...	appliances.environment.water_heat...	aqua	33.2	55
3	2019-10-01T00:01.000+00:00	view	17200506	20530135597926324...	furniture.living_room.sofa	null	543.1	51
4	2019-10-01T00:01.000+00:00	view	1307067	20530135589202171...	computers.notebook	lenovo	251.74	55
5	2019-10-01T00:04.000+00:00	view	1004237	20530135556318826...	electronics.smartphone	apple	1081.98	53
6	2019-10-01T00:05.000+00:00	view	1480613	20530135610928667...	computers.desktop	pulser	908.62	51
7	2019-10-01T00:08.000+00:00	view	17300353	20530135538534976...	null	creed	380.96	55
8	2019-10-01T00:08.000+00:00	view	31500053	20530135580310246...	null	luminarc	41.16	55
9	2019-10-01T00:10.000+00:00	view	28719074	20530135654801090...	apparel.shoes.keds	baden	102.71	52
10	2019-10-01T00:11.000+00:00	view	1004545	20530135556318826...	electronics.smartphone	huawei	566.01	53
11	2019-10-01T00:11.000+00:00	view	2900536	20530135547762445...	appliances.kitchen.microwave	elenberg	51.46	55
12	2019-10-01T00:11.000+00:00	view	1005011	20530135556318826...	electronics.smartphone	samsung	900.64	53
13	2019-10-01T00:13.000+00:00	view	3900746	20530135523267709...	appliances.environment.water_heat...	haier	102.38	55
14	2019-10-01T00:15.000+00:00	view	44600062	21038074595953877...	null	shiseido	35.79	54