

Hi! Here some our recommendations to get the best out BLACKBOX:

Be as clear as possible

End the question in what language you want answer to be, e.g: 'connect to mongodb in py'

or you can just [Go to Blackboard](#)

Here are some suggestion (choose)

Write a function that reads data from a iso

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Connect to mongodb in no

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.  
Saving kaggle.json to kaggle.json  
{'kaggle.json':

```
1 !mkdir ~/.kaggle1
```

```
1 !cp kaggle.json ~/.kaggle/
```

```
1 ! chmod 600 ~/.kaggle/kaggle.json
```

```
1 ! kaggle datasets list
```

ref	title	
iamsouravbanerjee/customer-shopping-trends-dataset	Customer Shopping Trends I	
nelgiriwithana/top-spotify-songs-2023	Most Streamed Spotify Son	
bkcoban/customer-transactions	Customer Transactions	
yakhyojon/tiktok	TikTok User Engagement Da	
nelgiriwithana/billionaires-statistics-dataset	Billionaires Statistics Di	
nelgiriwithana/credit-card-fraud-detection-dataset-2023	Credit Card Fraud Detectio	
muhammadawaistayyab/amazon-movies-and-films	Amazon- Movies and Films	
anshtanwar/monthly-food-price-estimates	Global Food Price Inflation	44MB 2023-10-08 05:27
redpen12/mobile-phone-market-in-ghana	Mobile Phone Market in Ghana	49KB 2023-10-18 10:33
teamincribo/cyber-security-attacks	Cyber Security Attacks	5MB 2023-10-14 14:17
iamsouravbanerjee/heart-attack-prediction-dataset	Heart Attack Risk Prediction Dataset	519KB 2023-09-27 07:07
rajatsurana979/hotel-reservation-data-repository	Hotel Reservation Data Repository	4MB 2023-10-17 04:07
willianoliveiragibin/electric-vehicle-population	Electric Vehicle Population	5MB 2023-10-13 20:08
iamsouravbanerjee/cars-dataset	Cars Dataset	571KB 2023-10-17 05:58
sujaykapadnis/horror-movies-profits-dataset	Horror Movies - the best Hollywood Investments?	102KB 2023-10-14 04:05
willianoliveiragibin/10000-data-about-movies-1915-2023	10,000 Data about movies (1915 - 2023)	1MB 2023-10-11 19:31
sujaykapadnis/spotify-songs	spotify songs	3MB 2023-10-17 09:17
willianoliveiragibin/fatalities-in-the-israeli-palestinian	Fatalities in the Israeli-Palestinian	463KB 2023-10-10 19:07
asaniczka/wages-by-education-in-the-usa-1973-2022	Wages by Education in the USA (1973-2022)	7KB 2023-10-09 09:45
uom190346a/health-and-demographics-dataset	Health and Demographics Dataset	75KB 2023-10-18 07:55

Ask any coding question

```
1 !kaggle datasets download -d hhs/health-insurance-marketplace
```

```

Downloading health-insurance-marketplace.zip to /content
 99% 817M/829M [00:11:00:00, 105MB/s]
100% 829M/829M [00:11:00:00, 76.9MB/s]

```

```
1 !unzip health-insurance-marketplace.zip -d data/
```

```
Archive: health-insurance-marketplace.zip
  inflating: data/BenefitsCostSharing.csv
  inflating: data/BusinessRules.csv
  inflating: data/Crosswalk2015.csv
  inflating: data/Crosswalk2016.csv
```

```

inflating: data/Network.csv
inflating: data/PlanAttributes.csv
inflating: data/Rate.csv
inflating: data/ServiceArea.csv
inflating: data/database.sqlite
inflating: data/hashe$.txt
inflating: data/raw/._.sentinel
inflating: data/raw/._2014
inflating: data/raw/._2015
inflating: data/raw/._2016
inflating: data/raw/._Benefits_Cost_Sharing_PUF.csv
inflating: data/raw/._Benefits_Cost_Sharing_PUF_2015-12-08.csv
inflating: data/raw/._Business_Rules_PUF.csv
inflating: data/raw/._Business_Rules_PUF_2015-12-08.csv
inflating: data/raw/._Business_Rules_PUF_Reformat.csv
inflating: data/raw/._Machine_Readable_PUF_2015-12-21.xlsx
inflating: data/raw/._Network_PUF.csv
inflating: data/raw/._Network_PUF_2015-12-08.csv
inflating: data/raw/._Plan_Attributes_PUF.csv
inflating: data/raw/._Plan_Attributes_PUF_2014_2015-03-09.csv
inflating: data/raw/._Plan_Attributes_PUF_2015-12-08.csv
inflating: data/raw/._Plan_Crosswalk_PUF_2014-12-22.csv
inflating: data/raw/._Plan_ID_Crosswalk_PUF_2015-12-07.CSV
inflating: data/raw/._Rate_PUF.csv
inflating: data/raw/._Rate_PUF_2015-12-08.csv
inflating: data/raw/._ServiceArea_PUF_2015-12-08.csv
inflating: data/raw/._Service_Area_PUF.csv
inflating: data/raw/._sentinel
inflating: data/raw/2014/._sentinel
inflating: data/raw/2014/Benefits_Cost_Sharing_PUF.csv
inflating: data/raw/2014/Business_Rules_PUF.csv
inflating: data/raw/2014/Network_PUF.csv
inflating: data/raw/2014/Plan_Attributes_PUF_2014_2015-03-09.csv
inflating: data/raw/2014/Rate_PUF.csv
inflating: data/raw/2014/Service_Area_PUF.csv
inflating: data/raw/2015/._sentinel
inflating: data/raw/2015/Benefits_Cost_Sharing_PUF.csv
inflating: data/raw/2015/Business_Rules_PUF_Reformat.csv
inflating: data/raw/2015/Network_PUF.csv
inflating: data/raw/2015/Plan_Attributes_PUF.csv
inflating: data/raw/2015/Plan_Crosswalk_PUF_2014-12-22.csv
inflating: data/raw/2015/Rate_PUF.csv
inflating: data/raw/2015/Service_Area_PUF.csv
inflating: data/raw/2016/._sentinel
inflating: data/raw/2016/Benefits_Cost_Sharing_PUF_2015-12-08.csv
inflating: data/raw/2016/Business_Rules_PUF_2015-12-08.csv
inflating: data/raw/2016/Machine_Readable_PUF_2015-12-21.xlsx
inflating: data/raw/2016/Network_PUF_2015-12-08.csv
inflating: data/raw/2016/Plan_Attributes_PUF_2015-12-08.csv
inflating: data/raw/2016/Plan_ID_Crosswalk_PUF_2015-12-07.CSV
inflating: data/raw/2016/Rate_PUF_2015-12-08.csv
inflating: data/raw/2016/ServiceArea_PUF_2015-12-08.csv
inflating: data/raw/Benefits_Cost_Sharing_PUF.csv

```

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BLACKBOX AI

```
1 display(dbutils.fs.ls('file:/databricks/driver/data/'))
```

```

1 source = 'file:/databricks/driver/data/'
2 target = '/mnt/data/'
3
4 dbutils.fs.cp(source, target, recurse=True)

```

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acknowledge that you agree to agree to Blackbox's Terms and Privacy Policy

```
1 dbutils.fs.refreshMounts()
```

```

1 from pyspark.sql import SparkSession
2 from pyspark.sql.functions import when, col, mean, round, expr
3 spark = SparkSession.builder.appName("health").getOrCreate()

```

```

1 data = spark.read.csv("/mnt/data/Rate.csv", header=True, inferSchema=True)
2 data = data.select("Year", "InsurancePlanID", "PolicyAge", "PolicyRate")
3
4 data_filtered = data.filter(col('PolicyAge') != 'Family Option')
5
6 condition_child = (data_filtered['PolicyAge'] == '0-20')
7 condition_adult = (data_filtered['PolicyAge'] != '0-20')
8
9 data_filtered = data_filtered.withColumn('AgeGroup', when(condition_child, 'Young').when(condition_adult, 'Older').otherwise(None))
10
11 result = data_filtered.groupBy('Year', 'InsurancePlanID', 'AgeGroup') \
12     .agg(round(mean('PolicyRate'), 2).alias('AverageRate')) \
13     .fillna({'AgeGroup': 'All'}).fillna({'AverageRate': 0})
14
15 result.show()

```

```

1 import re
2 from pyspark.sql.types import StringType

1 def categorize_age_group(text_data):
2     child_match_found = re.search(r'Child', text_data, re.IGNORECASE)
3     adult_match_found = re.search(r'Adult', text_data, re.IGNORECASE)
4
5     if child_match_found and not adult_match_found:
6         return 'AgeGroup: Child'
7     elif adult_match_found and not child_match_found:
8         return 'AgeGroup: Adult'
9     else:
10        return 'AgeGroup: Unknown'
11
12 insurance_records = spark.read.csv('/mnt/data/BenefitsCostSharing.csv', header=True, in
13 insurance_records = insurance_records.select("CoverageBenefitName", "PolicyYear", "Poli
14
15 insurance_records = insurance_records.withColumn("PolicyIdentifier", expr("substring(Po
16
17 categorize_age_group_udf = udf(categorize_age_group, StringType()))
18 insurance_records = insurance_records.withColumn("AgeGroupCategory", categorize_age_gro
19 insurance_records = insurance_records.na.drop()
20
21 merged_insurance_data = insurance_records.join(rate_pivot, on=['PolicyYear', 'Poli
22 merged_insurance_data = merged_insurance_data.withColumnRenamed("AverageRate", "Po
23 merged_insurance_data = merged_insurance_data.fillna(0, subset=['PolicyAverageRate
24
25 merged_insurance_data.show()

1 !mkdir transformed

1 final_data = merged_data.repartition(1)
2 final_data.write.csv('file:/databricks/driver/transformed/final.csv', header=True, mode

1 display(dbutils.fs.ls('file:/databricks/driver/transformed/final.csv/'))

1 source = 'file:/databricks/driver/transformed/'
2 target = '/mnt/transformed/'
3
4 dbutils.fs.cp(source, target, recurse=True)

1 dbutils.fs.refreshMounts()

1 display(dbutils.fs.ls('/mnt/transformed/final.csv/'))

1 from pyspark.sql import SparkSession
2 spark = SparkSession.builder.appName("health").getOrCreate()
3
4 directory_path = '/mnt/transformed/final.csv/'
5
6 files = dbutils.fs.ls(directory_path)
7
8 csv_files = [file for file in files if file.name.endswith('.csv')]
9
10 file_path = directory_path + csv_files[0].name
11
12 print(file_path)

```

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