

```
In [ ]: !pip install kafka-python
```

```
In [1]: import pandas as pd
        from kafka import KafkaProducer
        from time import sleep
        from json import dumps
        import json
```

```
In [2]: producer = KafkaProducer(bootstrap_servers=[':9092'], value_serializer=lambda x: dumps
```

```
In [3]: producer.send('demo_test', value={'name': 'Indrani'})
```

```
Out[3]: <kafka.producer.future.FutureRecordMetadata at 0x15464fa5e50>
```

```
In [4]: df = pd.read_csv("c:/csv-ml/indexProcessed.csv")
```

```
In [5]: df.head()
```

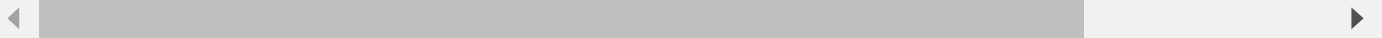
```
Out[5]:
```

	Index	Date	Open	High	Low	Close	Adj Close	Volume	CloseUSDT
0	HSI	1986-12-31	2568.300049	2568.300049	2568.300049	2568.300049	2568.300049	0.0	333.879000
1	HSI	1987-01-02	2540.100098	2540.100098	2540.100098	2540.100098	2540.100098	0.0	330.213010
2	HSI	1987-01-05	2552.399902	2552.399902	2552.399902	2552.399902	2552.399902	0.0	331.811980
3	HSI	1987-01-06	2583.899902	2583.899902	2583.899902	2583.899902	2583.899902	0.0	335.906980
4	HSI	1987-01-07	2607.100098	2607.100098	2607.100098	2607.100098	2607.100098	0.0	338.923010

```
In [6]: df.sample(10)
```

Out[6]:

	Index	Date	Open	High	Low	Close	Adj Close	
242	HSI	1987-12-24	2365.800049	2379.100098	2365.800049	2379.100098	2379.100098	0.00
13774	NYA	1987-01-13	1576.969971	1576.969971	1576.969971	1576.969971	1576.969971	0.00
32282	IXIC	2010-02-08	2140.100098	2152.639893	2125.110107	2126.050049	2126.050049	2.03
25372	IXIC	1982-09-17	186.610001	186.610001	186.610001	186.610001	186.610001	0.00
84356	GDAXI	2005-09-12	5028.490234	5035.390137	4979.850098	4989.979980	4989.979980	9.56
49463	N225	1999-08-27	17710.970700	17816.669920	17567.859380	17599.369140	17599.369140	0.00
62625	399001.SZ	2007-06-05	11171.780270	12017.709960	10652.190430	12017.709960	12017.576170	1.58
71184	GSPTSE	2000-01-17	8357.500000	8494.500000	8357.500000	8479.299805	8479.299805	1.14
100286	TWII	2014-11-10	8937.589844	9062.889648	8937.589844	9049.980469	9049.947266	1.84
95548	SSMI	2019-07-16	9805.830078	9869.240234	9804.089844	9850.519531	9850.519531	6.21

In [7]: `df.sample(1).to_dict(orient="records")[0]`

Out[7]:

```
{'Index': 'NSEI',
 'Date': '2018-05-03',
 'Open': 10720.15039,
 'High': 10720.59961,
 'Low': 10647.4502,
 'Close': 10679.65039,
 'Adj Close': 10679.65039,
 'Volume': 185200.0,
 'CloseUSD': 106.7965039}
```

In []:

```
while True:
    dict_stock = df.sample(1).to_dict(orient="records")[0]
    producer.send('demo_test', value=dict_stock)
    sleep(1)
```

In []: `producer.flush()` *#clear data from kafka server*

In []:

In []: