Vijay(Book29) 04/08/2023

In [1]:

- 1 import numpy as np
- 2 import pandas as pd
- 3 import matplotlib.pyplot as plt
- 4 **import** seaborn **as** sns
- 5 **from** sklearn.linear_model **import** LogisticRegression
- 6 **from** sklearn.preprocessing **import** StandardScaler
- 7 **import** re
- 8 **from** sklearn.datasets **import** load_digits
- 9 **from** sklearn.model_selection **import** train_test_split

Out[2]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OC
0	322	NAGA MANI MIZO TRIPURA	1901	11.7	18.1	29.4	206.2	124.0	443.3	331.4	466.0	304.1	166
1	323	NAGA MANI MIZO TRIPURA	1902	4.8	0.5	36.3	297.8	215.5	480.1	392.4	312.8	318.7	102
2	324	NAGA MANI MIZO TRIPURA	1903	6.5	40.5	139.8	45.5	159.9	458.6	300.2	470.6	366.1	166
3	325	NAGA MANI MIZO TRIPURA	1904	2.3	46.9	47.5	290.3	230.5	455.3	423.5	423.6	375.8	128
4	326	NAGA MANI MIZO TRIPURA	1905	9.1	35.3	306.5	161.7	193.6	339.7	450.1	429.9	320.1	246
110	432	NAGA MANI MIZO TRIPURA	2011	12.6	3.6	51.4	81.1	334.9	374.2	313.3	367.6	258.3	92
111	433	NAGA MANI MIZO TRIPURA	2012	24.5	10.2	20.3	243.5	163.5	396.2	280.1	342.7	248.7	160
112	434	NAGA MANI MIZO TRIPURA	2013	0.2	5.7	19.7	60.3	348.9	206.6	255.9	291.3	241.4	125
113	435	NAGA MANI MIZO TRIPURA	2014	1.2	21.0	25.4	49.6	192.5	268.3	295.7	372.3	300.9	69
114	436	NAGA MANI MIZO TRIPURA	2015	14.4	14.2	21.6	253.5	198.3	283.9	413.6	334.2	255.9	118

115 rows × 20 columns

```
In [3]: 1 a.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):

	•	21 20 columns).	
#	Column	Non-Null Count	Dtype
0	index	115 non-null	int64
1	SUBDIVISION	115 non-null	object
2	YEAR	115 non-null	int64
3	JAN	115 non-null	float64
4	FEB	115 non-null	float64
5	MAR	115 non-null	float64
6	APR	115 non-null	float64
7	MAY	115 non-null	float64
8	JUN	115 non-null	float64
9	JUL	115 non-null	float64
10	AUG	115 non-null	float64
11	SEP	115 non-null	float64
12	OCT	115 non-null	float64
13	NOV	115 non-null	float64
14	DEC	115 non-null	float64
15	ANNUAL	115 non-null	float64
16	Jan-Feb	115 non-null	float64
17	Mar-May	115 non-null	float64
18	Jun-Sep	115 non-null	float64
19	Oct-Dec	115 non-null	float64
dtype	es: float64(1	7), int64(2), ob	ject(1)

memory usage: 18.1+ KB

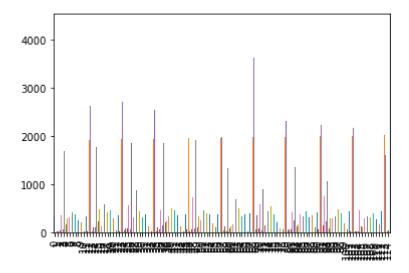
Out[4]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ос
0	322	NAGA MANI MIZO TRIPURA	1901	11.7	18.1	29.4	206.2	124.0	443.3	331.4	466.0	304.1	166
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		•••											
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115 rows × 20 columns

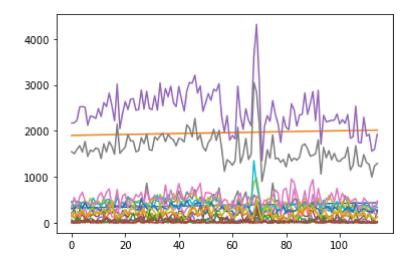
In [5]: 1 b.plot.bar(legend=None)

Out[5]: <AxesSubplot:>



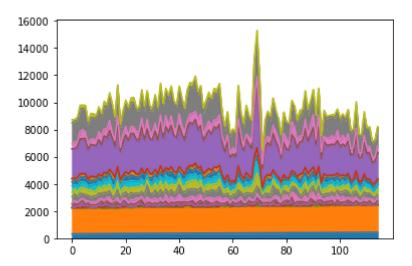
In [6]: 1 b.plot.line(legend=None)

Out[6]: <AxesSubplot:>



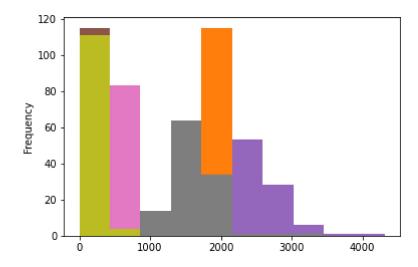
In [7]: 1 b.plot.area(legend=None)

Out[7]: <AxesSubplot:>



In [8]: 1 b.plot.hist(legend=None)

Out[8]: <AxesSubplot:ylabel='Frequency'>



In [10]: 1 b.plot.pie(y='YEAR',figsize=(8,8),labels=None,legend=None)

Out[10]: <AxesSubplot:ylabel='YEAR'>



In []: 1