🌸 rainfall in india - Mini ML Project 🌞

1. dataset analysis 😊

☐ original data

1.1 original dataframe

	T	NOV	DEC	ANNUAL	Jan-Feb	Mar-May	Jun-Sep	Oct-Dec
0	3.500000	558.200000	33.600000	3373.200000	136.300000	560.300000	1696.300000	980.30000
1	7.200000	359.000000	160.500000	3520.700000	159.800000	458.300000	2185.900000	716.70000
2	1.200000	284.400000	225.000000	2957.400000	156.700000	236.100000	1874.000000	690.60000
3	2.200000	308.700000	40.100000	3079.600000	24.100000	506.900000	1977.600000	571.00000
4	0.700000	25.400000	344.700000	2566.700000	1.300000	309.700000	1624.900000	630.80000

☐ data postprocessing

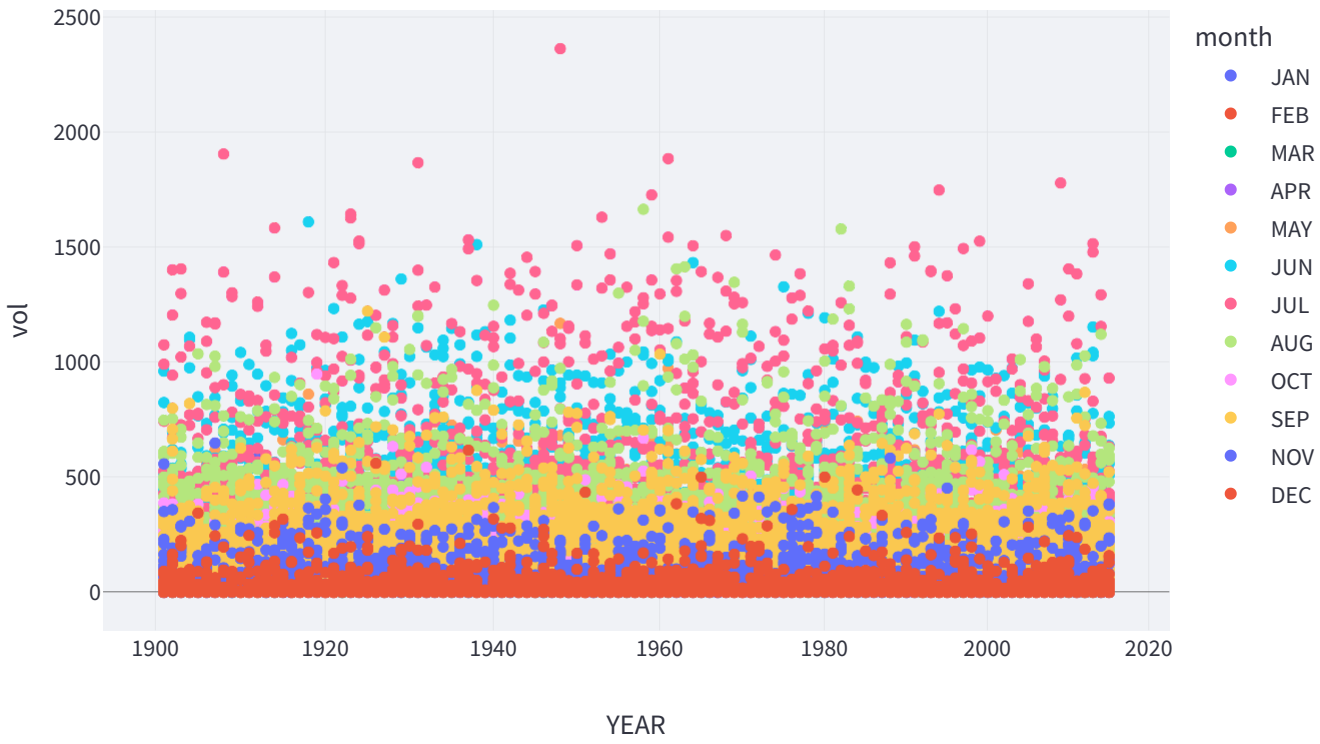
1.2 data postprocessing

	SUBDIVISION	YEAR	month	vol
0	ANDAMAN & NICOBAR ISLANDS	1901	JAN	49.200000
1	ANDAMAN & NICOBAR ISLANDS	1902	JAN	0.000000
2	ANDAMAN & NICOBAR ISLANDS	1903	JAN	12.700000
3	ANDAMAN & NICOBAR ISLANDS	1904	JAN	9.400000
4	ANDAMAN & NICOBAR ISLANDS	1905	JAN	1.300000

☐ scatterplot

1.3 scatterplot

Streamlit theme (default) Plotly native theme



☐ mean rain statewise

1.4 mean rain statewise

himalaya rain: 229.35028985507248

naga rain: 202.80318840579713

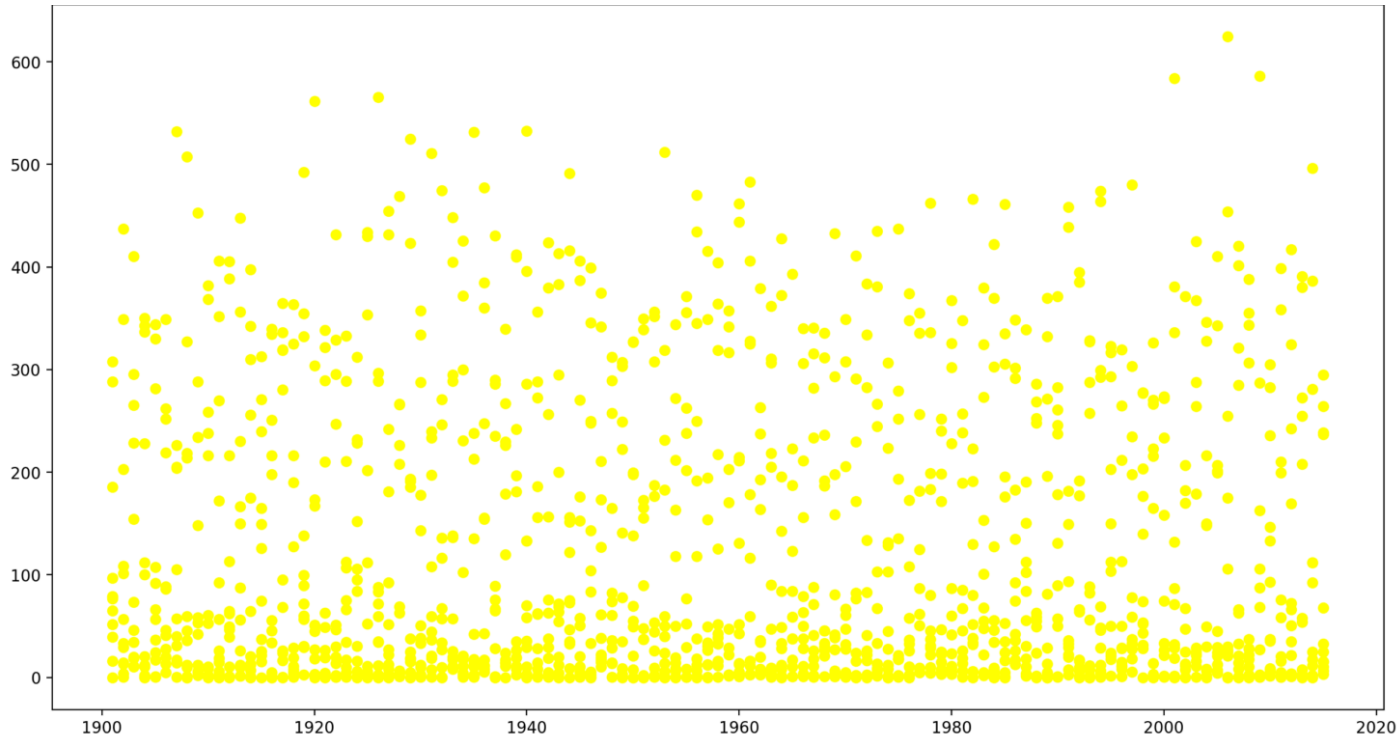
assam rain: 215.0581884057971

arunachal rain: 286.8682989690721

andhaman rain: 243.99681818181818

☐ scatterplot2

1.5 orissa rain scatterplot



2.machine learning models

- [ ] linear regression model

2.1 linear regression model

```
13439.04759262689
```

- [ ] ridge

2.2 ridge

Train data*

```
13352.881142225877
```

Test data*

```
13800.458896981743
```