

```
dt={"name":["jyothi","chandu","swomya","harsha","lakshmi","menaka","aishwarya","anusha","bhārathi","chandrika","keerthana","nayana","nisha","poornima","harish","manoj","karthik","abhi","adithya","akash","darshan","ga  
age":[18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18,18],  
semester":["6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th","6th"],  
average_marks":[87,88,83,76,56,77,65,78,69,83,72,84,89,76,86,86,78,65,82,73,65,57,46,83,78,67,69,79,86,57,45,67,87,65,46,89,76,56,87]}
```

```
{'name': ['jyothi', 'chandu', 'swomya', 'harsha', 'lakshmi', 'menaka', 'aishwarya', 'anusha', 'bharathi', 'chandrika', 'keerthana', 'nayana', 'nisha', 'poornima', 'harish', 'manoj', 'karthik', 'abhi', 'adithya',
```

```
print(df)
```

```
df=pd.read_csv("Data.csv")
```

```
print(df)
```

```
print(df.info())
```

df.index

```
➡ RangeIndex(start=0, stop=39, step=1)
```

df.columns

```
➡ Index(['name', 'age', 'semester', 'average marks'], dtype='object')
```

```
print(df["name"])
```

```

⇒ 0      jyothi
    1      chandu

```

```
2      swomya
3      harsha
4      lakshmi
5      menaka
6      aishwarya
7      anusha
8      bharathi
9      chandrika
10     keerthana
11     nayana
12     nisha
13     poornima
14     harish
15     manoj
16     karthik
17     abhi
18     adithya
19     akash
20     darshan
21     gayathri
22     halappa
23     manjunath
24     sumanth
25     vijay
26     koushik
27     manojss
28     manojsh
29     kiran
30     shakunthala
31     nirmala
32     amrutha
33     keerthanas
34     varsha
35     pradeep
36     rohan
37     gurubasavaraj
38     gurumurty
Name: name, dtype: object
```

```
print(df["average marks"])
```

```
0      87
1      88
2      83
3      76
4      56
5      77
6      65
7      78
8      69
9      83
10     72
11     84
12     89
13     76
14     86
15     86
16     78
17     65
18     82
19     73
20     65
21     57
22     46
23     83
24     78
25     67
26     69
27     79
28     86
29     57
30     45
31     67
32     87
33     65
34     46
35     89
36     76
37     56
38     87
Name: average marks, dtype: int64
```

```
print(df["name"].unique())
```

```
['jyothi ' 'chandu' 'swomya' 'harsha' 'lakshmi' 'menaka' 'aishwarya'
 'anusha' 'bharathi' 'chandrika' 'keerthana' 'nayana' 'nisha' 'poornima'
 'harish' 'manoj' 'karthik' 'abhi' 'adithya' 'akash' 'darshan' 'gayathri'
 'halappa' 'manjunath' 'sumanth' 'vijay' 'koushik' 'manojss' 'manojsh'
 'kiran' 'shakunthala' 'nirmala' 'amrutha' 'keerthanas' 'varsha' 'pradeep'
 'rohan' 'gurubasavaraj' 'gurumurty']
```

```
print(df["average marks"].value_counts())
```

```
average marks
65      4
87      3
83      3
76      3
78      3
86      3
56      2
69      2
67      2
46      2
89      2
57      2
73      1
79      1
84      1
82      1
88      1
72      1
77      1
45      1
Name: count, dtype: int64
```


```
print(df["average marks"].sort_values(ascending=True))
```

```
30      45
22      46
34      46
4       56
37      56
29      57
21      57
33      65
6       65
20      65
17      65
25      67
31      67
26      69
8       69
10      72
19      73
13      76
```

```
3      76
36     76
5      77
7      78
24     78
16     78
27     79
18     82
9      83
23     83
2      83
11     84
14     86
28     86
15     86
0      87
32     87
38     87
1      88
12     89
35     89
Name: average marks, dtype: int64
```

```
df=pd.DataFrame(dt)
```

df




	name	age	semester	average marks
0	jyothi	18	6th	87
1	chandu	18	6th	88
2	swomya	18	6th	83
3	harsha	18	6th	76
4	lakshmi	18	6th	56
5	menaka	18	6th	77
6	aishwarya	18	6th	65
7	anusha	18	6th	78
8	bharathi	18	6th	69
9	chandrika	18	6th	83
10	keerthana	18	6th	72
11	nayana	18	6th	84
12	nisha	18	6th	89
13	poornima	18	6th	76
14	harish	18	6th	86
15	manoj	18	6th	86
16	karthik	18	6th	78
17	abhi	18	6th	65
18	adithya	18	6th	82
19	akash	18	6th	73
20	darshan	18	6th	65
21	gayathri	18	6th	57
22	halappa	18	6th	46
23	manjunath	18	6th	83
24	sumanth	18	6th	78
25	vijay	18	6th	67
26	koushik	18	6th	69
27	manojss	18	6th	79
28	manojsh	18	6th	86
29	kiran	18	6th	57
30	shakunthala	18	6th	45
31	nirmala	18	6th	67
32	amrutha	18	6th	87
33	keerthanas	18	6th	65
34	varsha	18	6th	46
35	pradeep	18	6th	89
36	rohan	18	6th	76
37	gurubasavaraj	18	6th	56
38	gurumurty	18	6th	87

Next steps: [Generate code with df](#) [View recommended plots](#) [New interactive sheet](#)

```
import matplotlib.pyplot as plt
```

```
df=pd.DataFrame(dt)
```

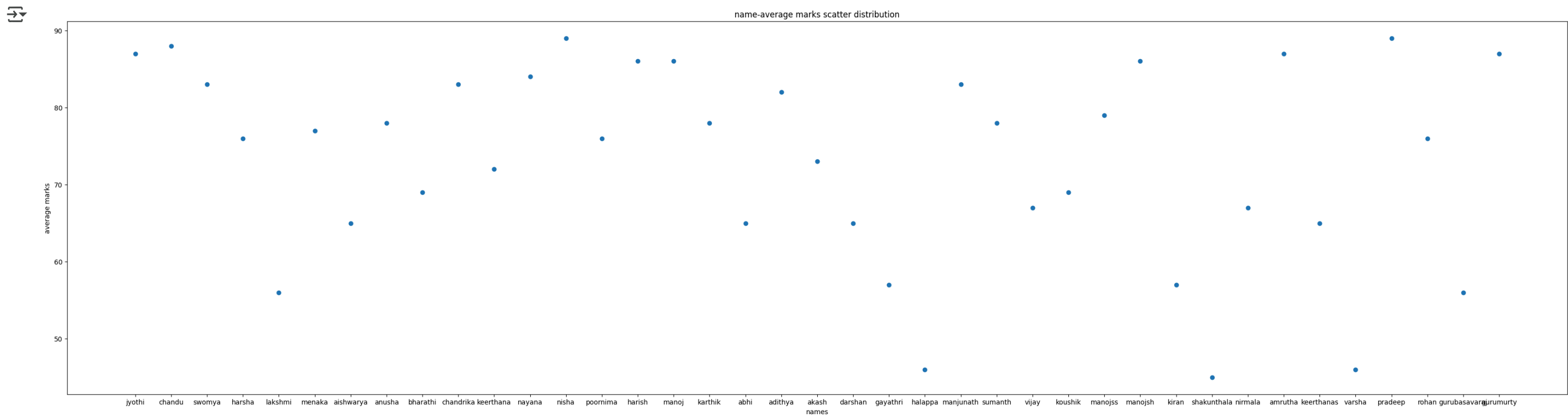
```
print(df)
```



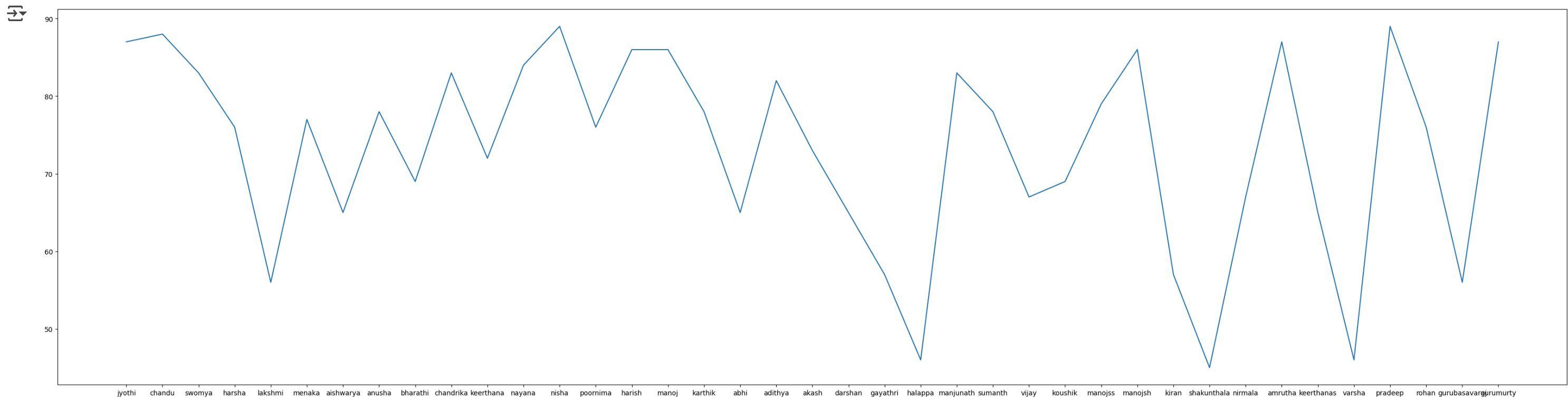
	name	age	semester	average marks
0	jyothi	18	6th	87
1	chandu	18	6th	88
2	swomya	18	6th	83
3	harsha	18	6th	76
4	lakshmi	18	6th	56
5	menaka	18	6th	77
6	aishwarya	18	6th	65
7	anusha	18	6th	78
8	bharathi	18	6th	69
9	chandrika	18	6th	83
10	keerthana	18	6th	72
11	nayana	18	6th	84
12	nisha	18	6th	89
13	poornima	18	6th	76
14	harish	18	6th	86
15	manoj	18	6th	86
16	karthik	18	6th	78
17	abhi	18	6th	65
18	adithya	18	6th	82
19	akash	18	6th	73
20	darshan	18	6th	65
21	gayathri	18	6th	57
22	halappa	18	6th	46
23	manjunath	18	6th	83
24	sumanth	18	6th	78

25	vijay	18	6th	67
26	koushik	18	6th	69
27	manojss	18	6th	79
28	manojsh	18	6th	86
29	kiran	18	6th	57
30	shakunthala	18	6th	45
31	nirmala	18	6th	67
32	amrutha	18	6th	87
33	keerthanas	18	6th	65
34	varsha	18	6th	46
35	pradeep	18	6th	89
36	rohan	18	6th	76
37	gurubasavaraj	18	6th	56
38	gurumurty	18	6th	87

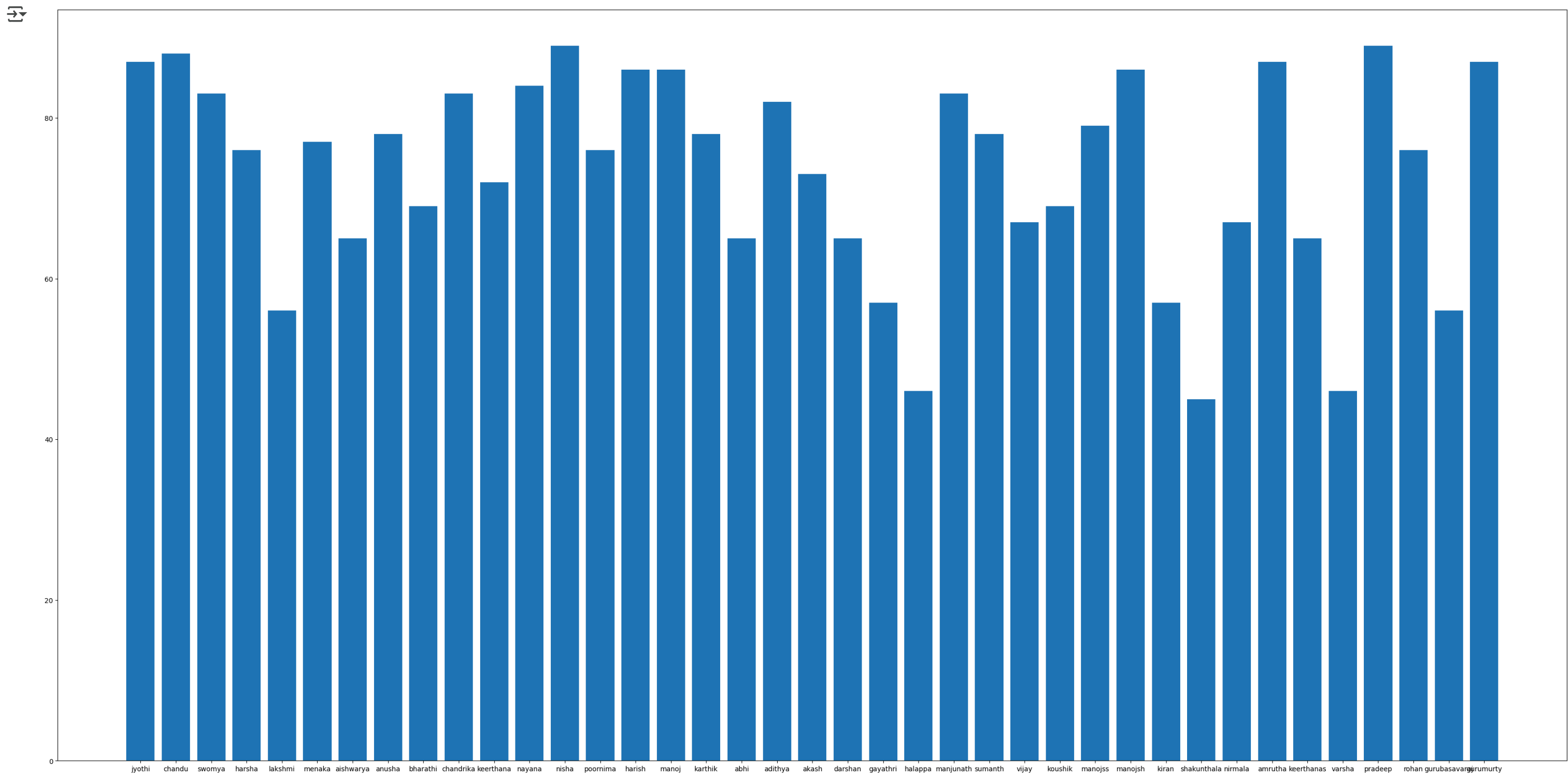
```
plt.figure(figsize=[40,10])
plt.title("name-average marks scatter distribution")
plt.xlabel("names")
plt.ylabel("average marks")
plt.scatter(x=df["name"],y=df["average marks"])
plt.show()
```



```
plt.figure(figsize=[40,10])
plt.plot(df["name"],df["average marks"])
plt.show()
```



```
plt.figure(figsize=[40,20])
plt.bar(x=df["name"],height=df["average marks"])
plt.show()
```



```
plt.figure(figsize=[20,10])
plt.pie(x=df["average marks"].value_counts(),labels=df["average marks"].unique(),autopct="%1.2f%%")
```

```
plt.show()
```

