In [7]:

```python
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
sns.set(color_codes=True)
```

In [8]:

```python
weather = pd.read_csv('Test.csv')
```

In [9]:

```python
weather.head()
```

Out[9]:

	date_time	is_holiday	air_pollution_index	humidity	wind_speed	wind_direction	visibility_in_miles	dew_point	temperature	rain_p_h	snow_p_h	clouds_all	weather_type	weather_description
0	18-05-2017 00:00	None	73.0	63.0	1.0	27.0	4.0	4.0	285.15	0.0	0.0	90.0	Rain	moderate rain
1	18-05-2017 00:00	None	251.0	63.0	1.0	27.0	4.0	4.0	285.15	0.0	0.0	90.0	Mist	mist
2	18-05-2017 00:00	None	75.0	56.0	1.0	0.0	1.0	1.0	285.15	0.0	0.0	90.0	Drizzle	light intensity drizzle
3	18-05-2017 01:00	None	98.0	56.0	1.0	351.0	2.0	2.0	284.79	0.0	0.0	90.0	Rain	heavy intensity rain
4	18-05-2017 01:00	None	283.0	56.0	1.0	351.0	1.0	1.0	284.79	0.0	0.0	90.0	Mist	mist

In [10]:

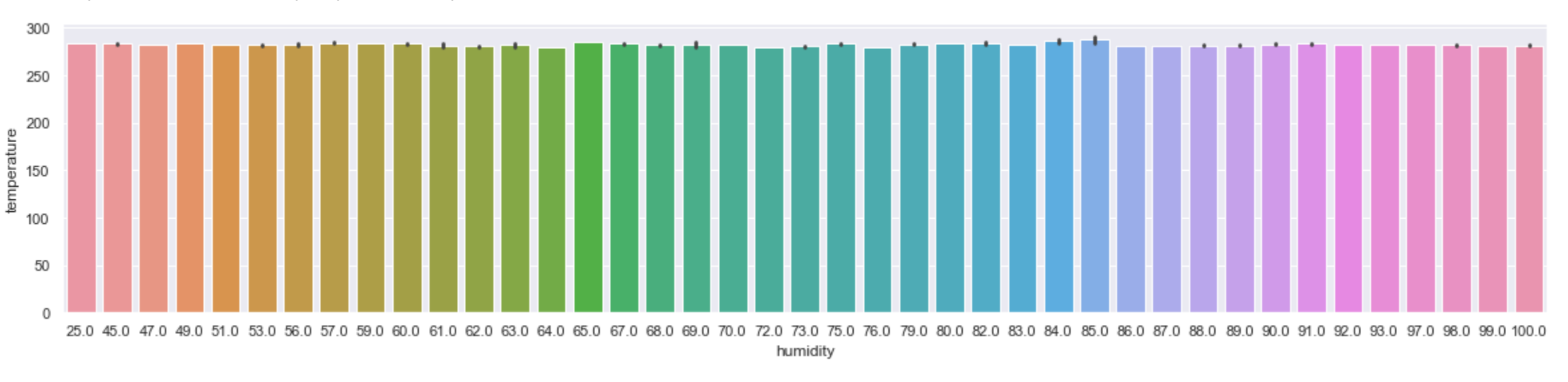
```python
weather.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 14454 entries, 0 to 14453
Data columns (total 14 columns):
 #   Column               Non-Null Count  Dtype  
---  ------               --------------  -----  
 0   date_time            199 non-null    object 
 1   is_holiday           199 non-null    object 
 2   air_pollution_index  199 non-null    float64
 3   humidity             199 non-null    float64
 4   wind_speed           199 non-null    float64
 5   wind_direction       199 non-null    float64
 6   visibility_in_miles  199 non-null    float64
 7   dew_point            199 non-null    float64
 8   temperature          199 non-null    float64
 9   rain_p_h             199 non-null    float64
 10  snow_p_h             199 non-null    float64
 11  clouds_all           199 non-null    float64
 12  weather_type         199 non-null    object 
 13  weather_description  199 non-null    object 
dtypes: float64(10), object(4)
memory usage: 1.5+ MB
```

In [11]:

```python
plt.figure(figsize = (20, 4))
sns.barplot(x='humidity', y='temperature',data=weather)
```

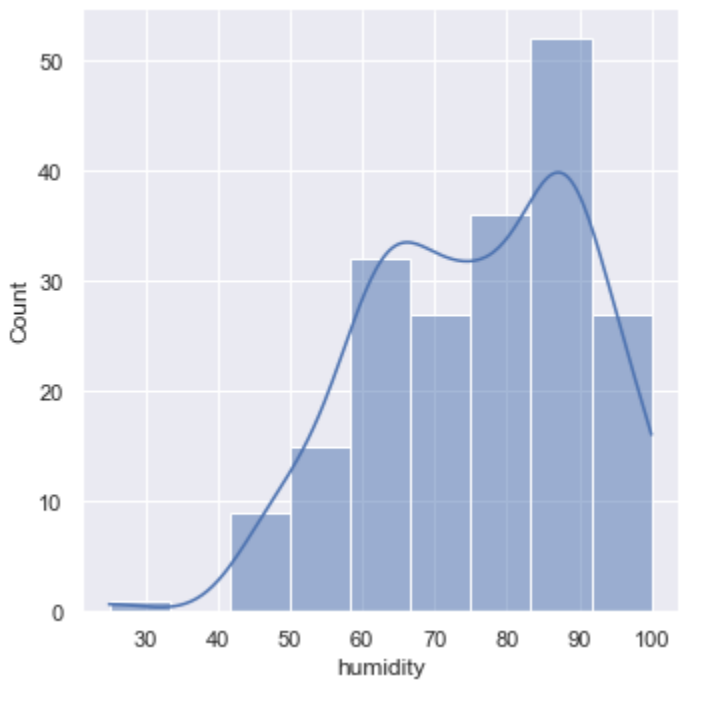
Out[11]: <AxesSubplot:xlabel='humidity', ylabel='temperature'>



In [23]:

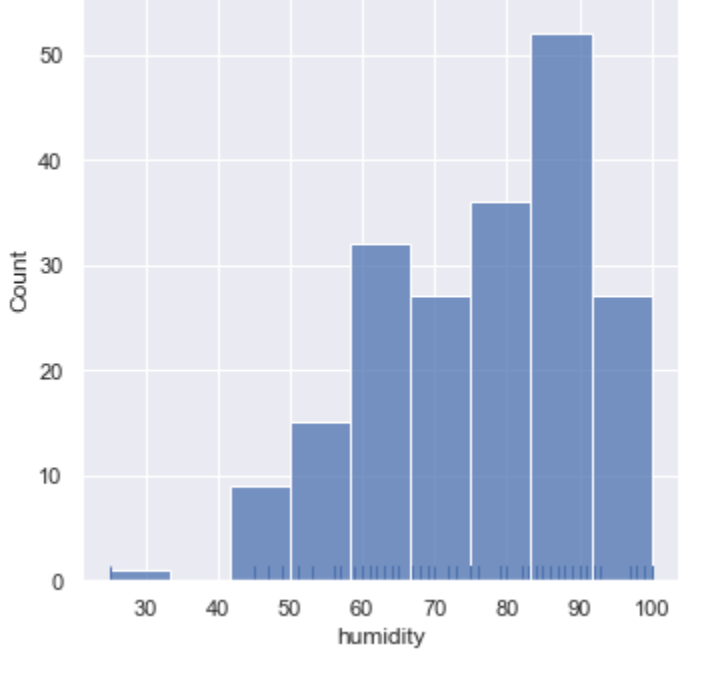
```python
sns.displot(weather['humidity'],kde=True)
```

Out[23]: <seaborn.axisgrid.FacetGrid at 0x1a132e6b2e0>



In [19]:

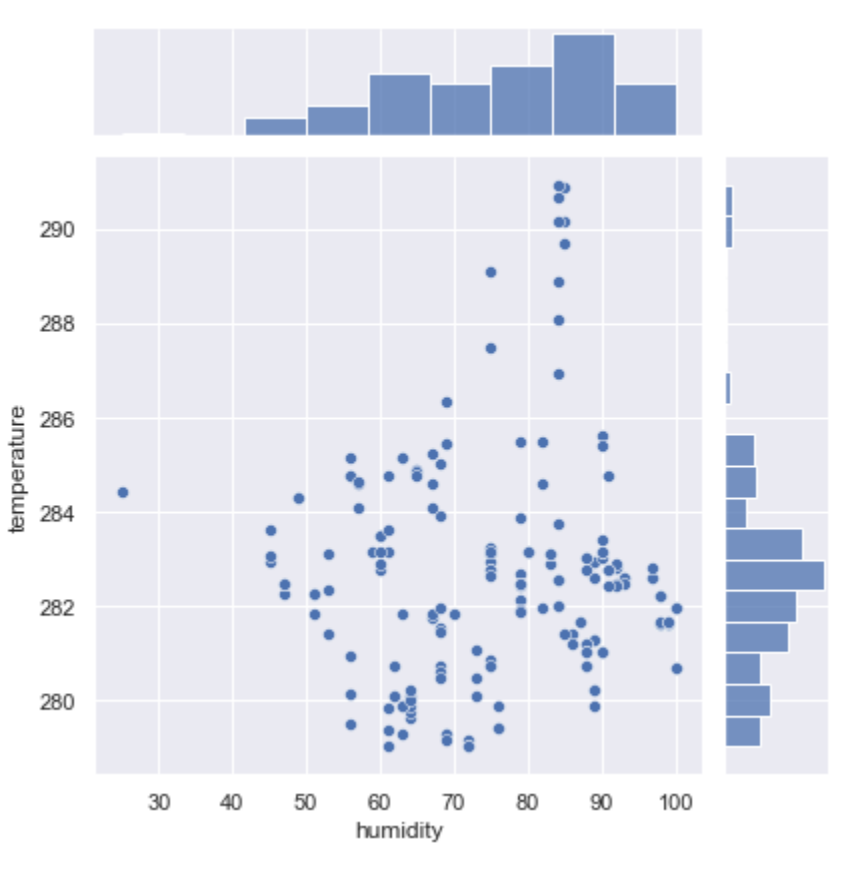
```python
sns.displot(weather['humidity'], kde=False, rug=True);
```



In [24]:

```python
sns.jointplot(data=weather,x='humidity', y='temperature')
```

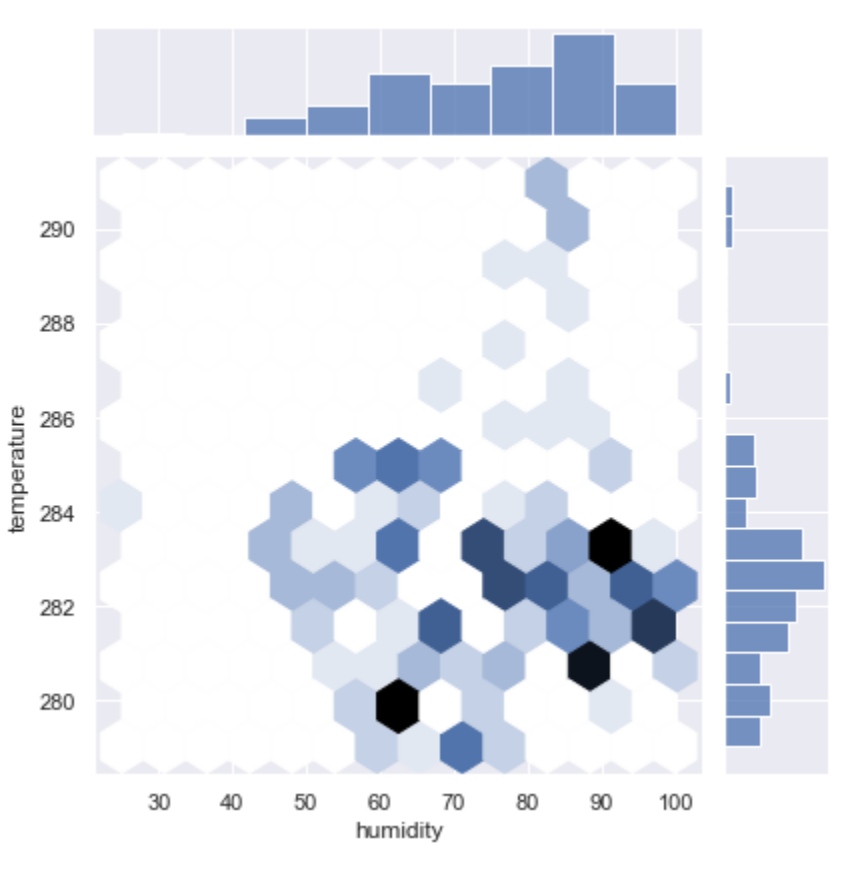
Out[24]: <seaborn.axisgrid.JointGrid at 0x1a132e42970>



In [25]:

```python
sns.jointplot(data=weather,x='humidity',y='temperature', kind="hex")
```

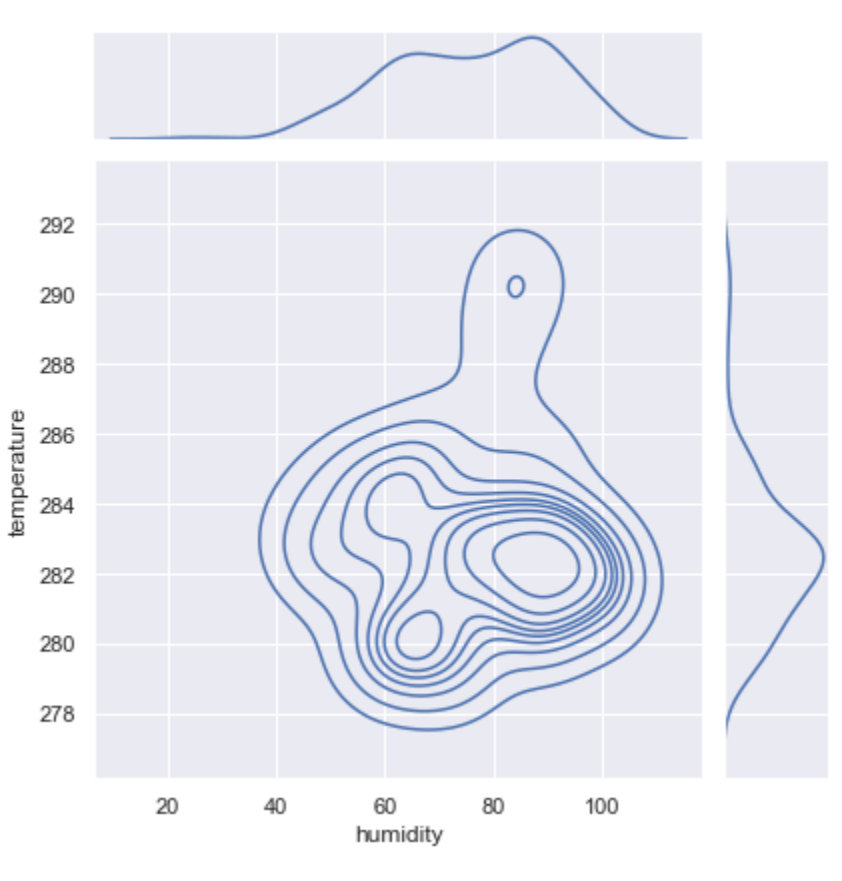
Out[25]: <seaborn.axisgrid.JointGrid at 0x1a132ec68e0>



In [26]:

```python
sns.jointplot(data=weather,x='humidity', y='temperature',kind="kde")
```

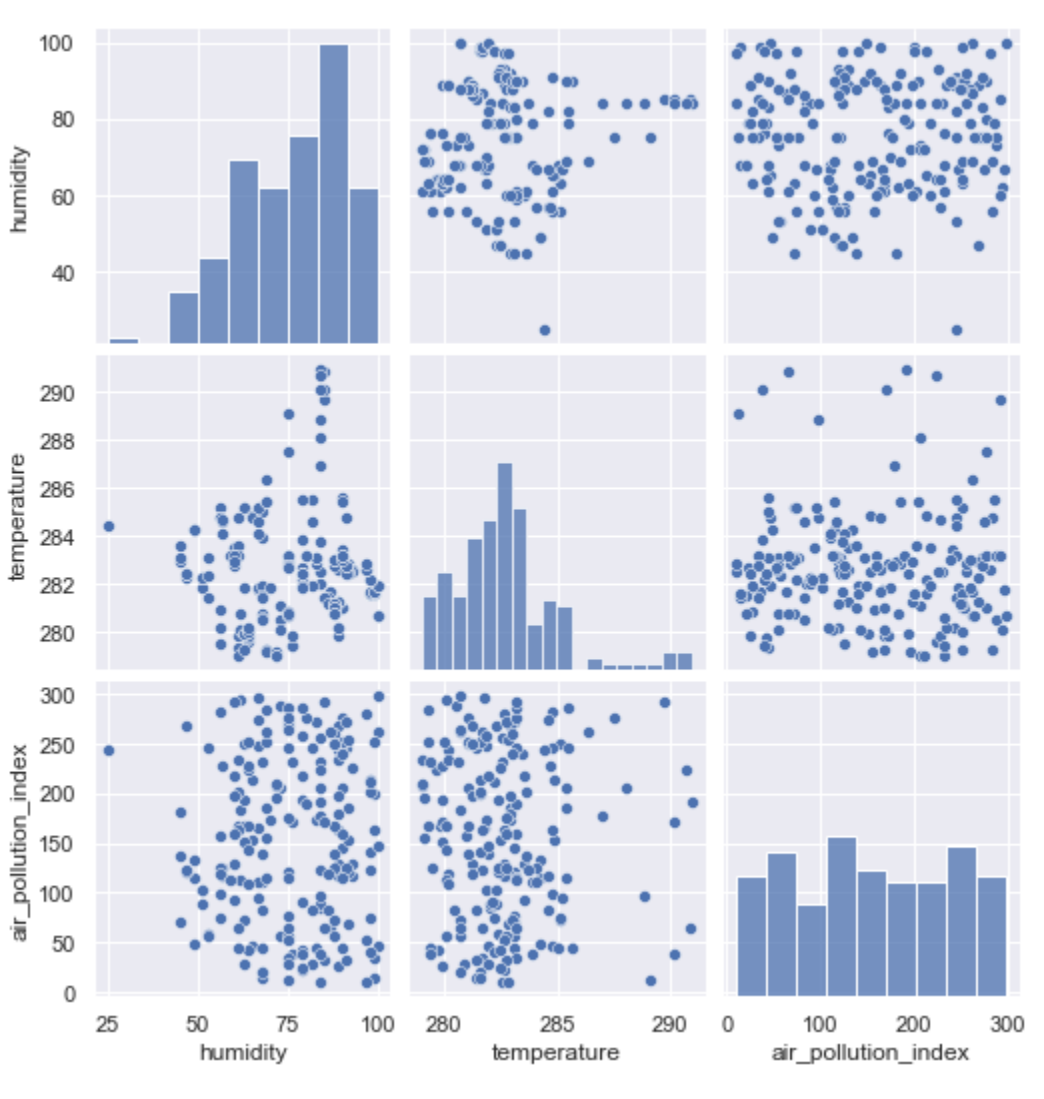
Out[26]: <seaborn.axisgrid.JointGrid at 0x1a133154910>



In [27]:

```python
sns.pairplot(weather[['humidity', 'temperature', 'air_pollution_index']])
```

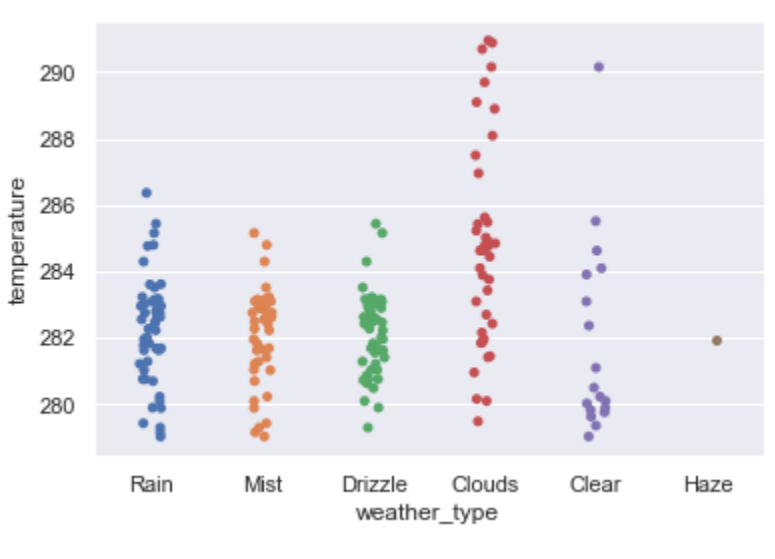
Out[27]: <seaborn.axisgrid.PairGrid at 0x1a1332d4d00>



In [28]:

```python
sns.stripplot(x=weather['weather_type'],y=weather['temperature'])
```

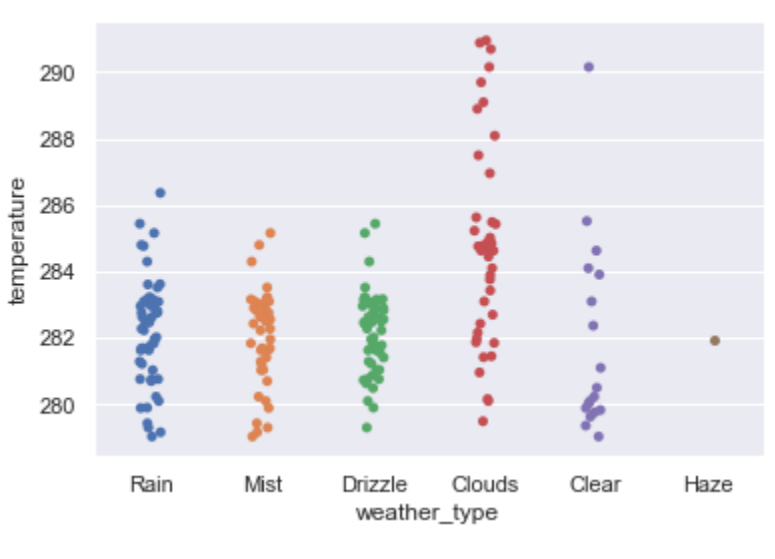
Out[28]: <AxesSubplot:xlabel='weather_type', ylabel='temperature'>



In [29]:

```python
sns.stripplot(x=weather['weather_type'], y=weather['temperature'], jitter = True)
```

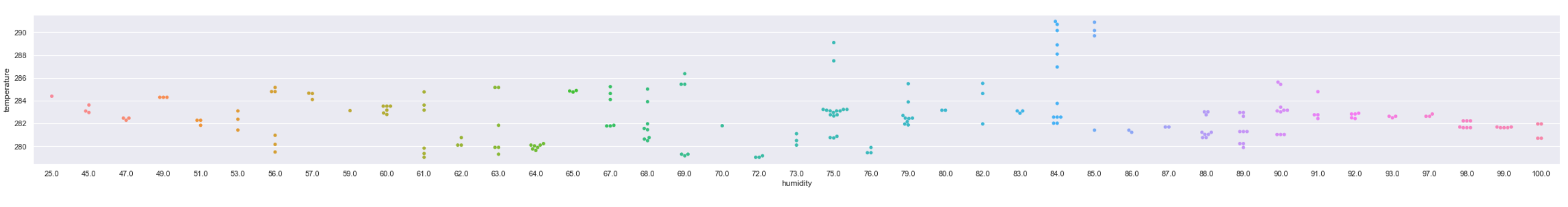
Out[29]: <AxesSubplot:xlabel='weather_type', ylabel='temperature'>



In [39]:

```python
plt.figure(figsize = (40, 4))
sns.swarmplot(x=weather['humidity'],y=weather['temperature'])
```

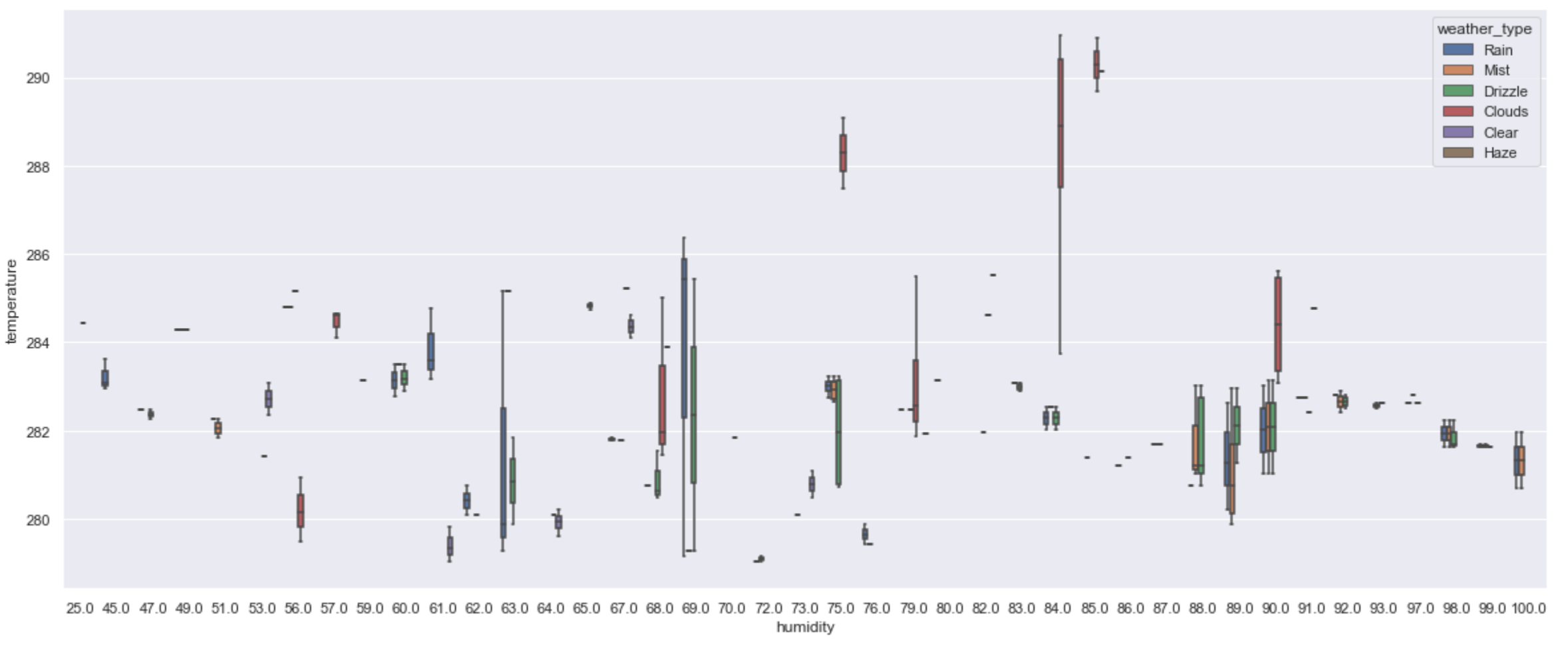
Out[39]: <AxesSubplot:xlabel='humidity', ylabel='temperature'>



In [44]:

```python
plt.figure(figsize = (20, 8))
sns.boxplot(x=weather['humidity'],y=weather['temperature'], hue=weather['weather_type'])
```

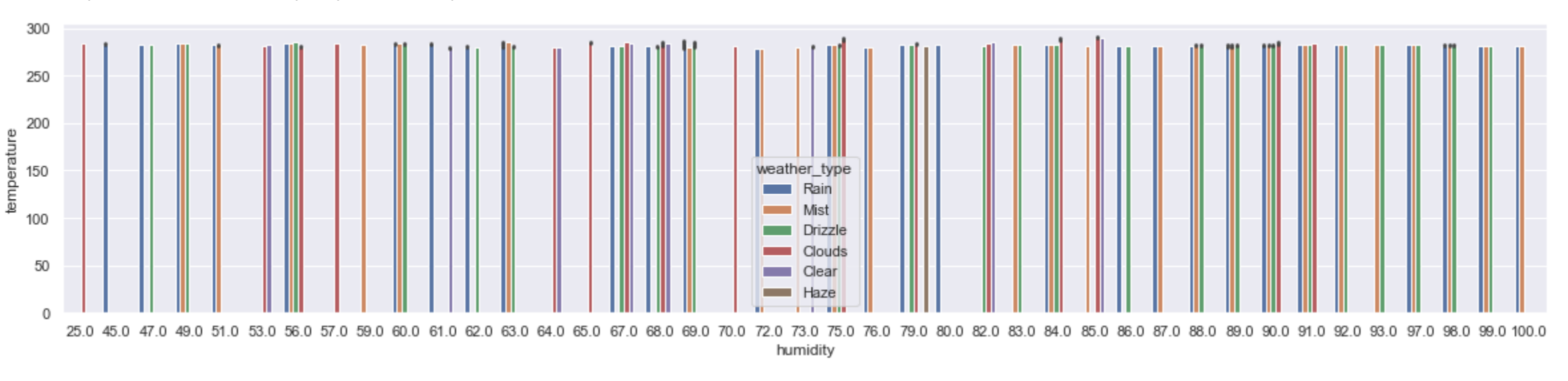
Out[44]: <AxesSubplot:xlabel='humidity', ylabel='temperature'>



In [46]:

```python
plt.figure(figsize = (20, 4))
sns.barplot(x='humidity',y='temperature', hue='weather_type',data=weather)
```

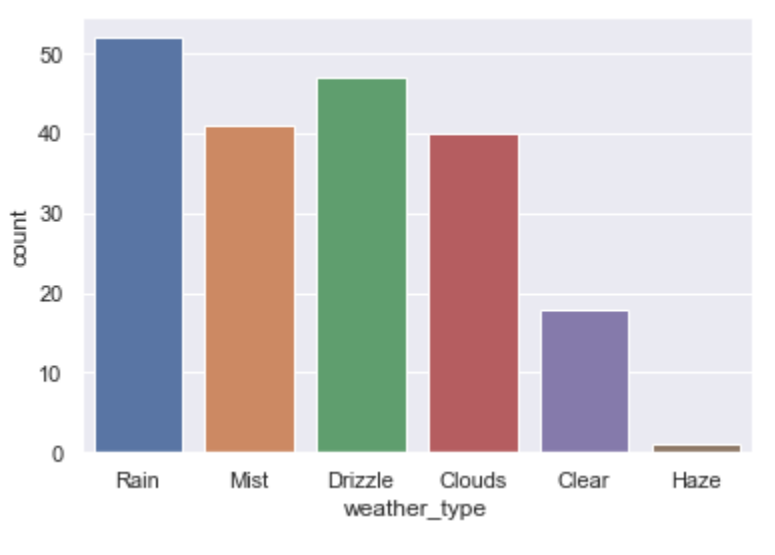
Out[46]: <AxesSubplot:xlabel='humidity', ylabel='temperature'>



In [47]:

```python
sns.countplot(x='weather_type',data=weather)
```

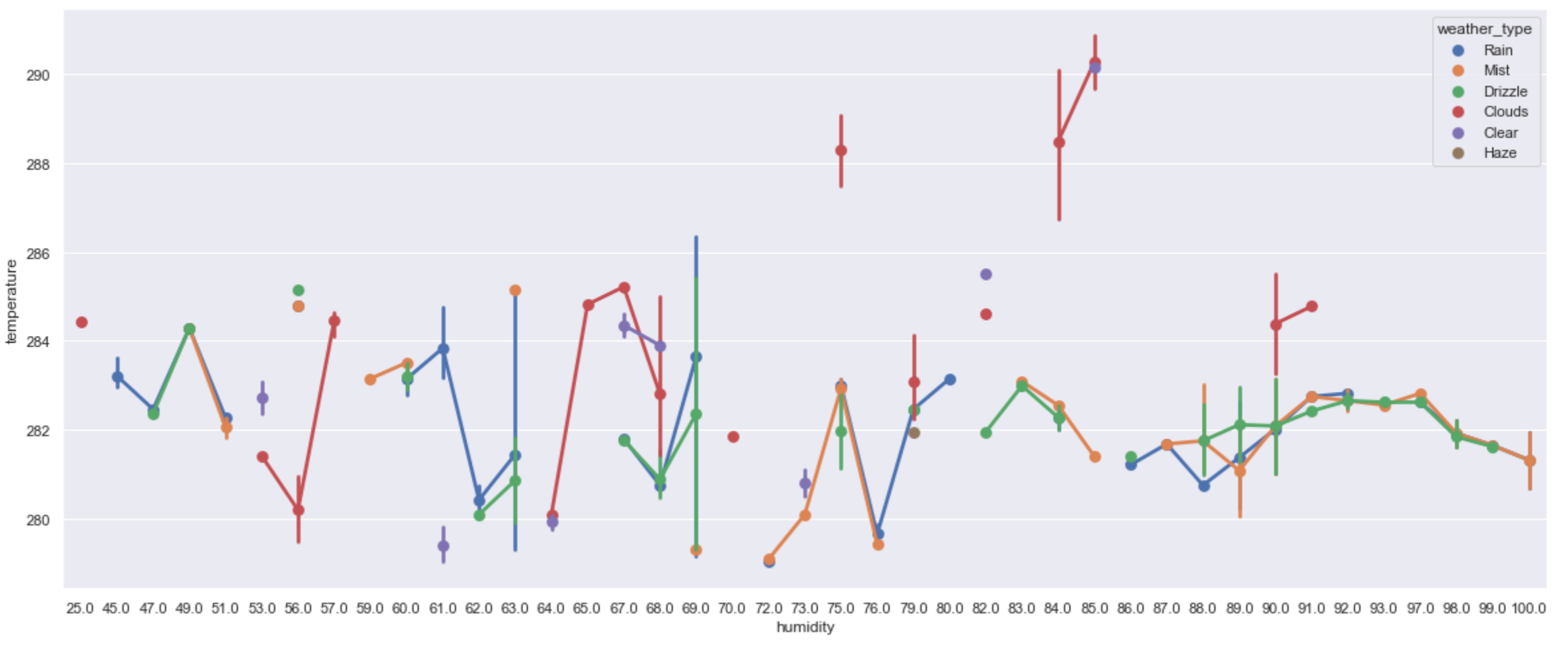
Out[47]: <AxesSubplot:xlabel='weather_type', ylabel='count'>



In [51]:

```python
plt.figure(figsize = (20, 8))
sns.pointplot(x='humidity', y='temperature', hue='weather_type',data=weather)
```

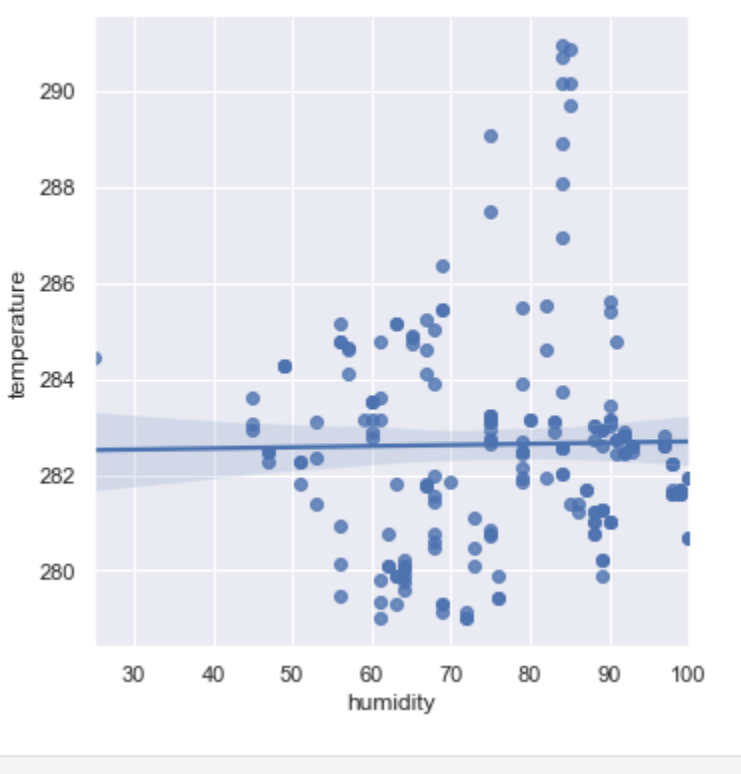
Out[51]: <AxesSubplot:xlabel='humidity', ylabel='temperature'>



In [52]:

```python
sns.lmplot(x="humidity", y="temperature", data=weather)
```

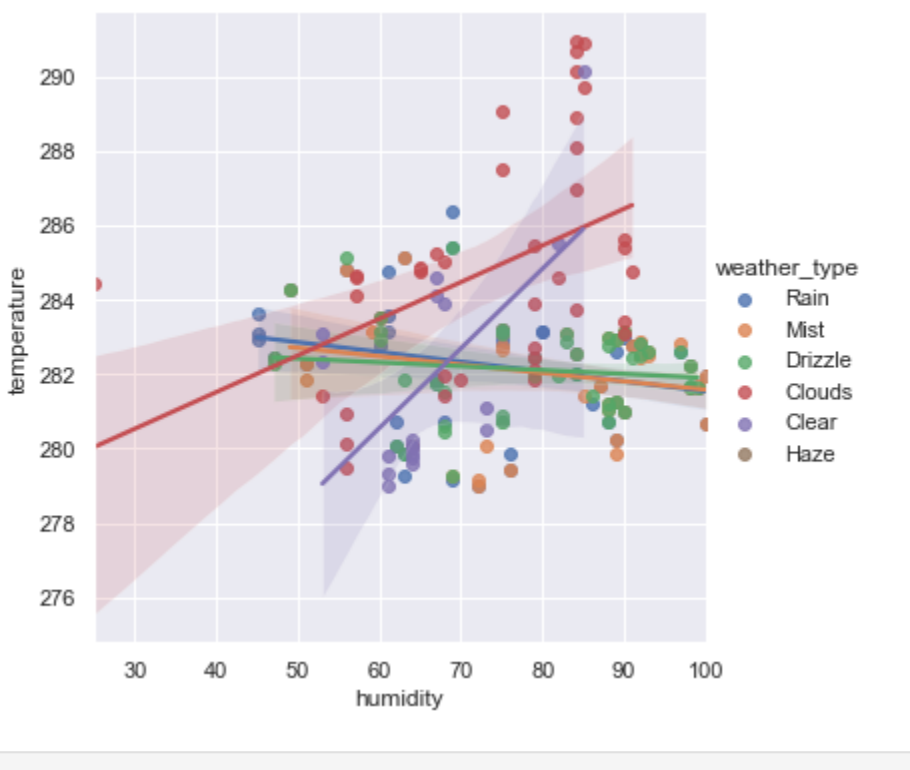
Out[52]: <seaborn.axisgrid.FacetGrid at 0x1a13a34d400>



In [53]:

```python
sns.lmplot(x="humidity", y="temperature", hue="weather_type", data=weather)
```

Out[53]: <seaborn.axisgrid.FacetGrid at 0x1a13ae8ee20>



In [ ]: