First Step to read data from the file

import libraries

- import pandas
- import seaborn
- import matplotlib

First Read Data

In [1]:
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo
day5
```

Out[1]:

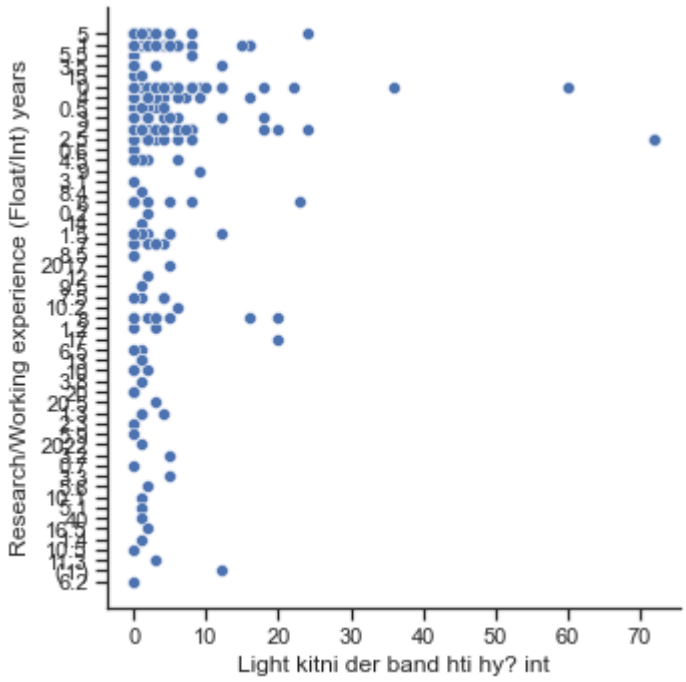
	Gender	Location	Age	Qualification_completed	field_of_study	Purpose_for_chilla	What are you?	Blc grc
0	Male	Pakistan	36-40	Masters	Natural Sciences	to boost my skill set	Unemplyed	
1	Male	Pakistan	26-30	Bachelors	CS/IT	to boost my skill set	Student	
2	Male	Pakistan	31-35	Masters	Enginnering	Switch my field of study	Employed	
3	Female	Pakistan	31-35	Masters	CS/IT	to boost my skill set	Employed	
4	Female	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Student	
...	...	...	...	...	...	...	...	
370	Male	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Employed	
371	Male	Pakistan	31-35	Bachelors	Enginnering	to boost my skill set	Employed	
372	Male	Pakistan	21-25	Bachelors	CS/IT	to boost my skill set	Employed	
373	Male	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Employed	
374	Female	Pakistan	31-35	Masters	Mathematics	Switch my field of study	Unemplyed	

375 rows × 23 columns

Add X and Y axis

In [2]:
```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
#     hue="coherence", size="choice", col="align",
#     kind="line", size_order=["T1", "T2"], palette=palette,
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[2]: <seaborn.axisgrid.FacetGrid at 0x1e166ebe100>

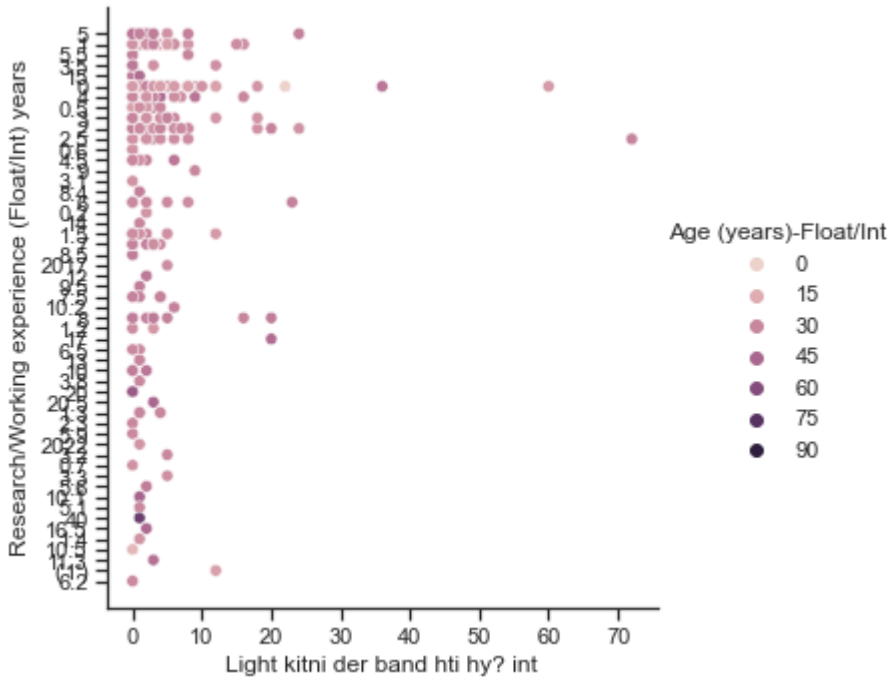


Add Hue Element

In [3]:
```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
```

```
            hue="Age (years)-Float/Int", data=day5)
#      size="choice", col="align",
#     kind="line", size_order=["T1", "T2"], palette=palette,
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[3]: <seaborn.axisgrid.FacetGrid at 0x1e16bfc49a0>

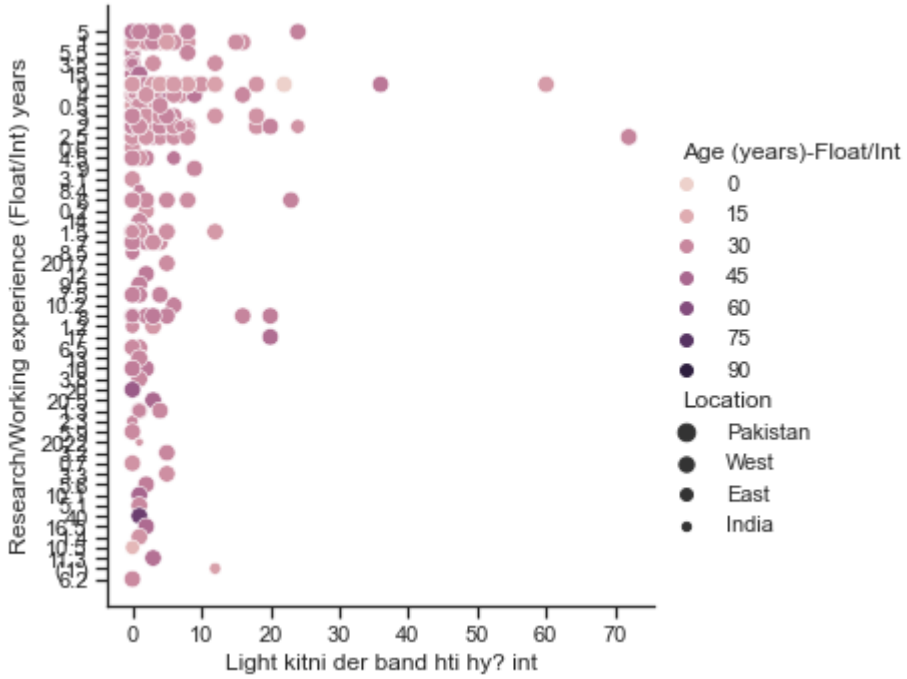


Add another element

In [4]:

```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", data=day5)
#       col="align",
#     kind="line", size_order=["T1", "T2"], palette=palette,
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[4]: <seaborn.axisgrid.FacetGrid at 0x1e166eccbe0>

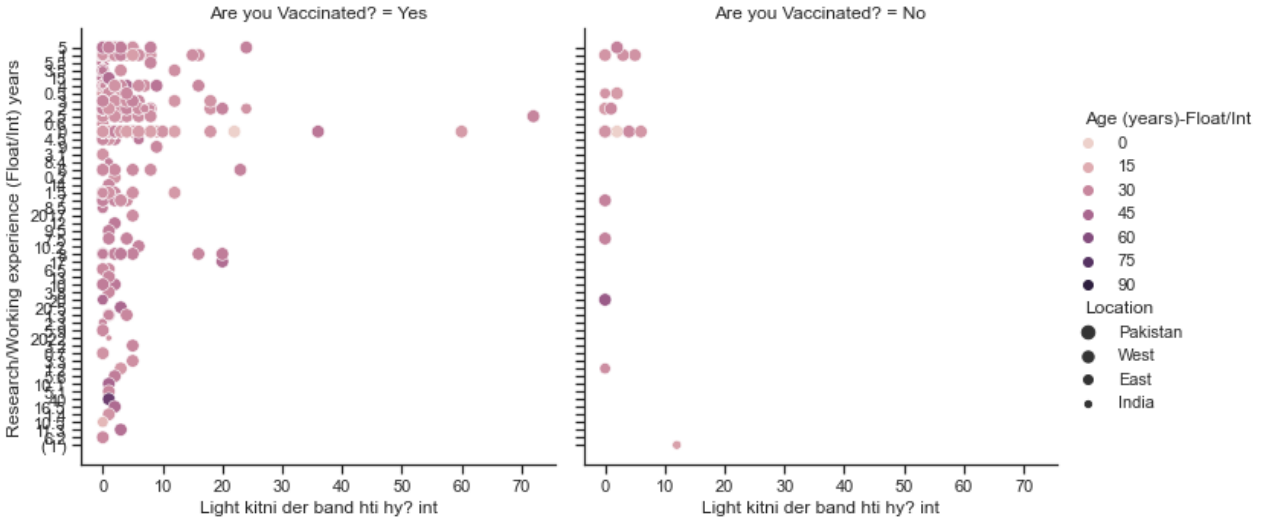


In [5]:

```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", da
#
#     kind="line", size_order=["T1", "T2"], palette=palette,
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[5]:

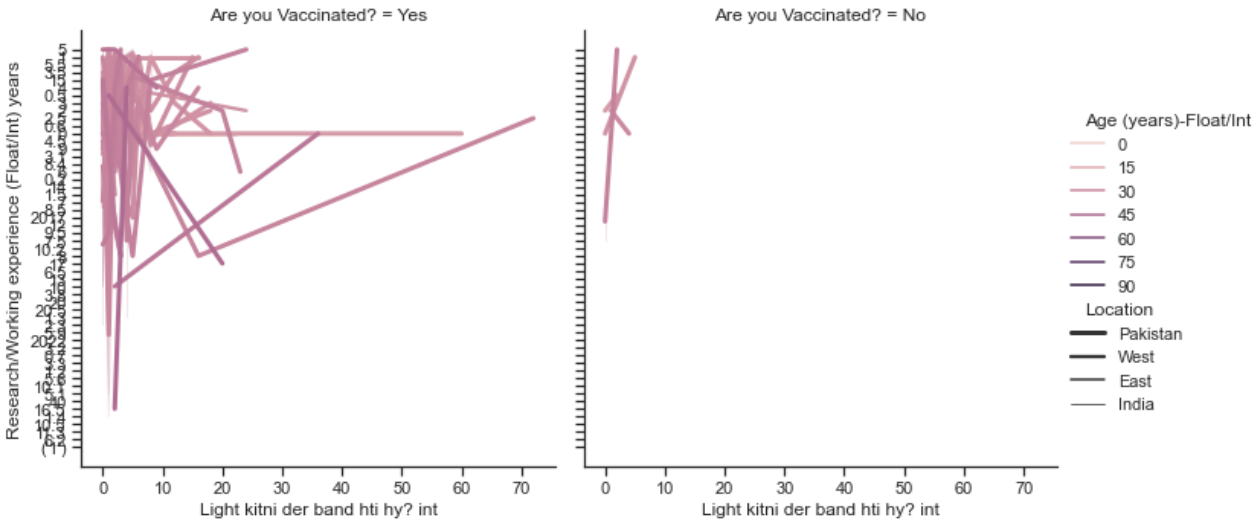
```
<seaborn.axisgrid.FacetGrid at 0x1e16c81e850>
```



Add Kind element

In [6]:
```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", ki
#
#      size_order=["T1", "T2"], palette=palette,
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

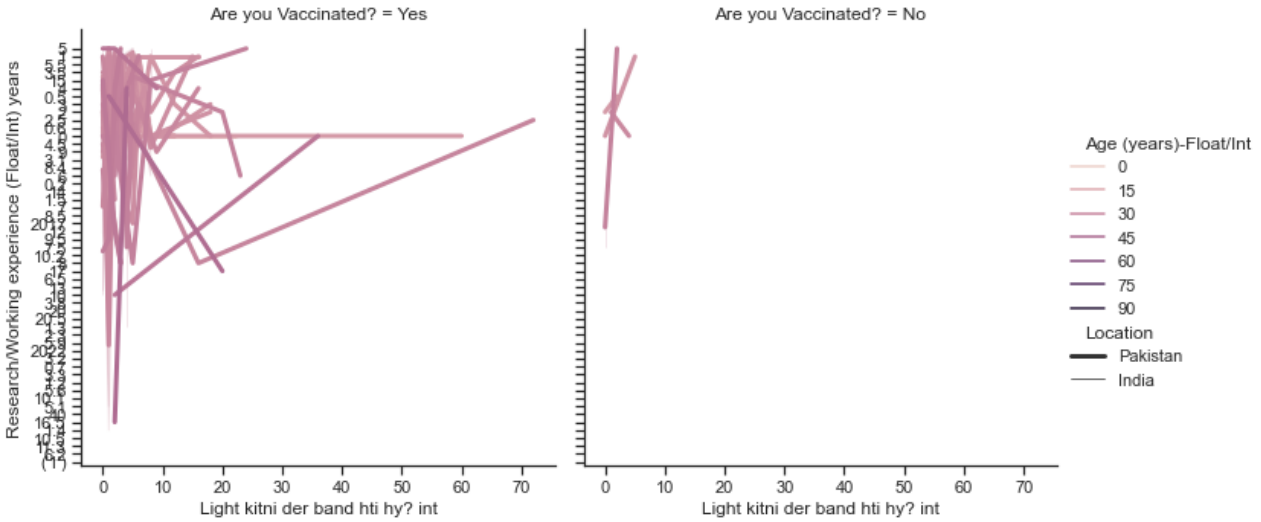
Out[6]:
```
<seaborn.axisgrid.FacetGrid at 0x1e16ca9cf10>
```



Add size order element

In [7]:
```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", ki
            size_order=["Pakistan", "India"],data=day5)
#
#       palette=palette,
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[7]:
```
<seaborn.axisgrid.FacetGrid at 0x1e16caf28b0>
```

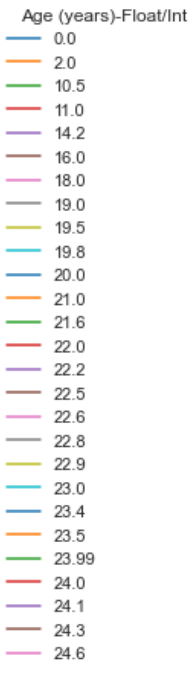


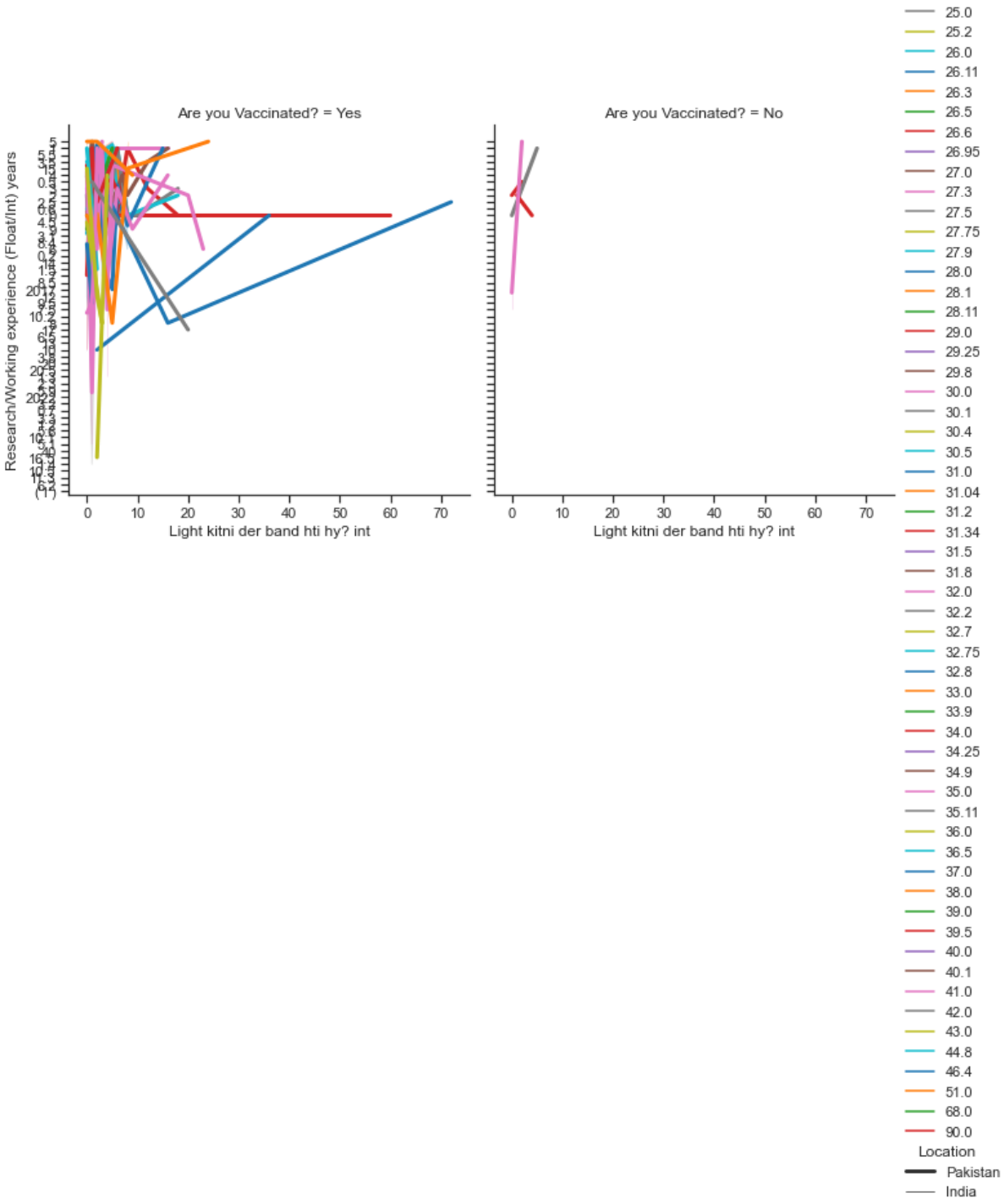
Add Palette Element

In [8]:

```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", ki
            size_order=["Pakistan", "India"], palette="tab10", data=day5)
#
#
#     height=5, aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[8]: <seaborn.axisgrid.FacetGrid at 0x1e16cfad850>





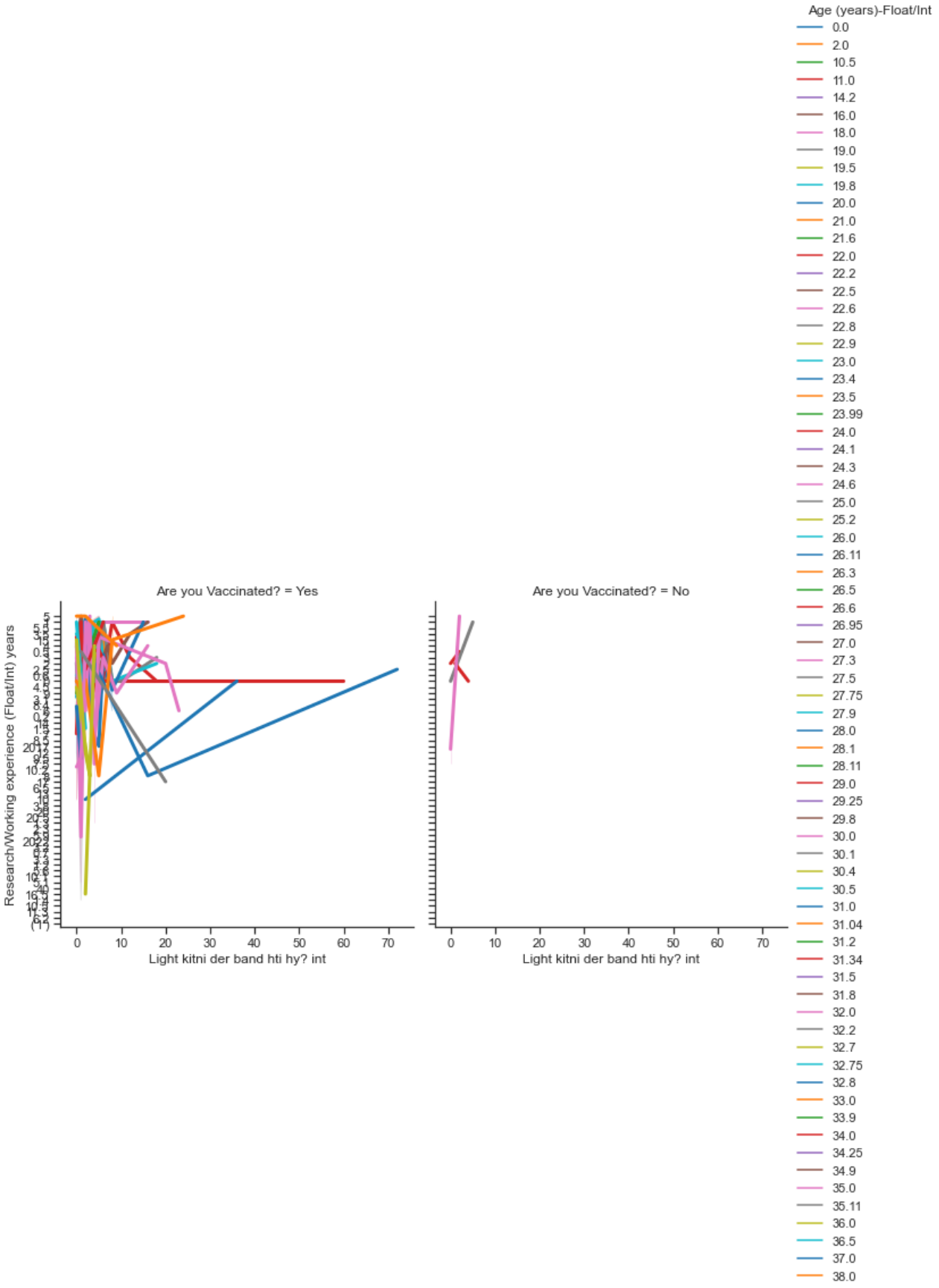
Add Highet Element

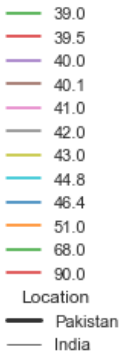
In [12]:

```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", ki
            size_order=["Pakistan", "India"], palette="tab10", height=5, data=day5)
```

```
#
#
#       aspect=.75, facet_kws=dict(sharex=False),
# )
```

Out[12]: <seaborn.axisgrid.FacetGrid at 0x1e16c8877c0>





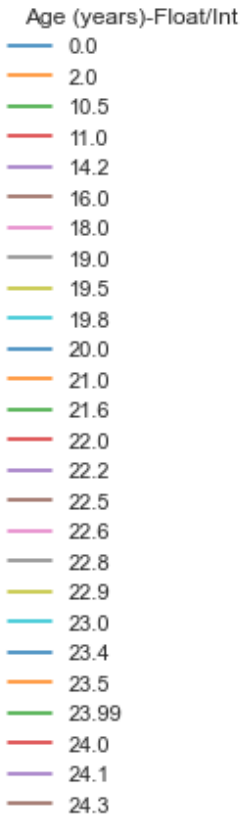
Add Aspect Element

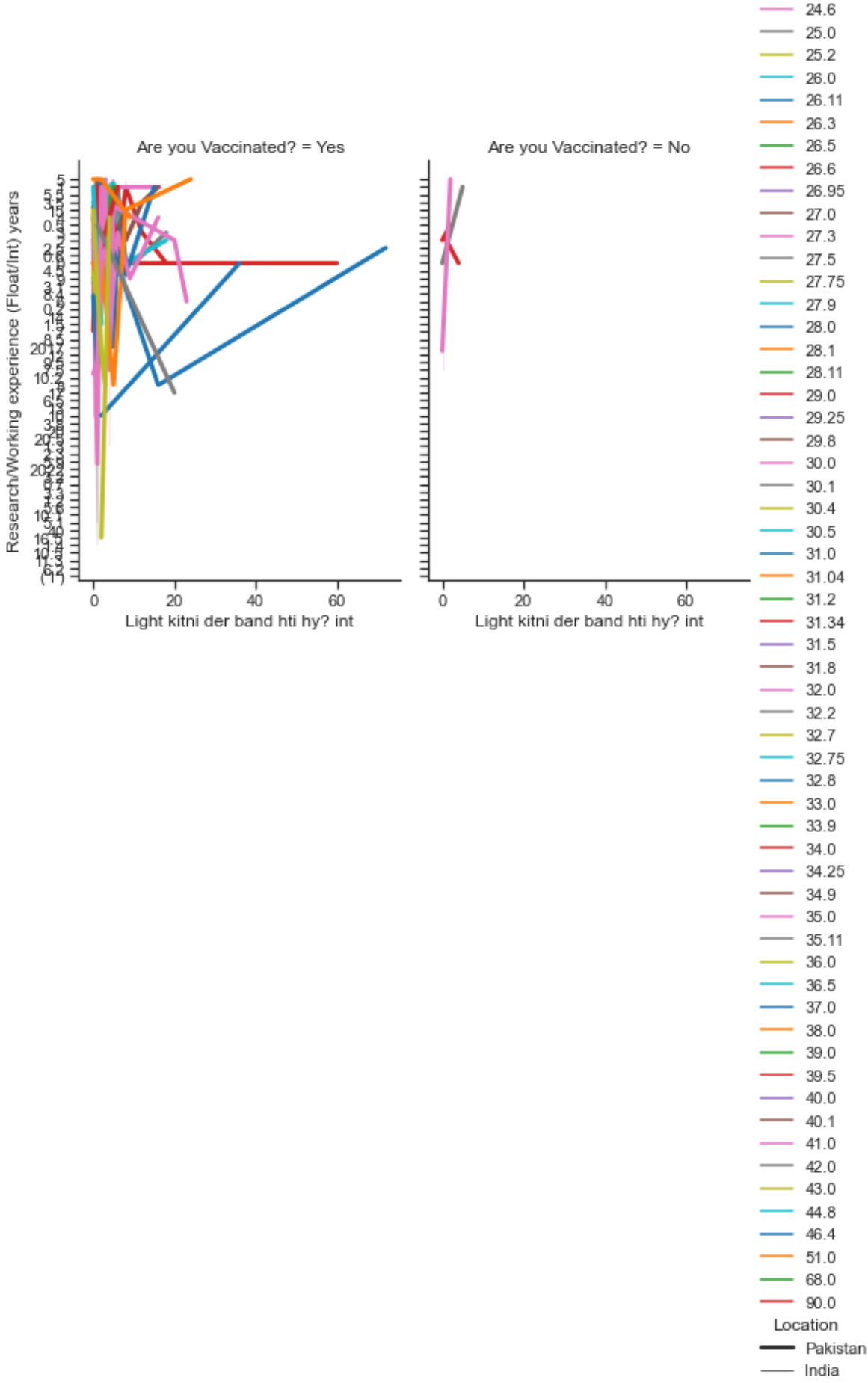
In [13]:

```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", ki
            size_order=["Pakistan", "India"], palette="tab10", height=5, aspect=.75, da
#
#
#       facet_kws=dict(sharex=False),
# )
```

Out[13]:

```
<seaborn.axisgrid.FacetGrid at 0x1e170971f10>
```

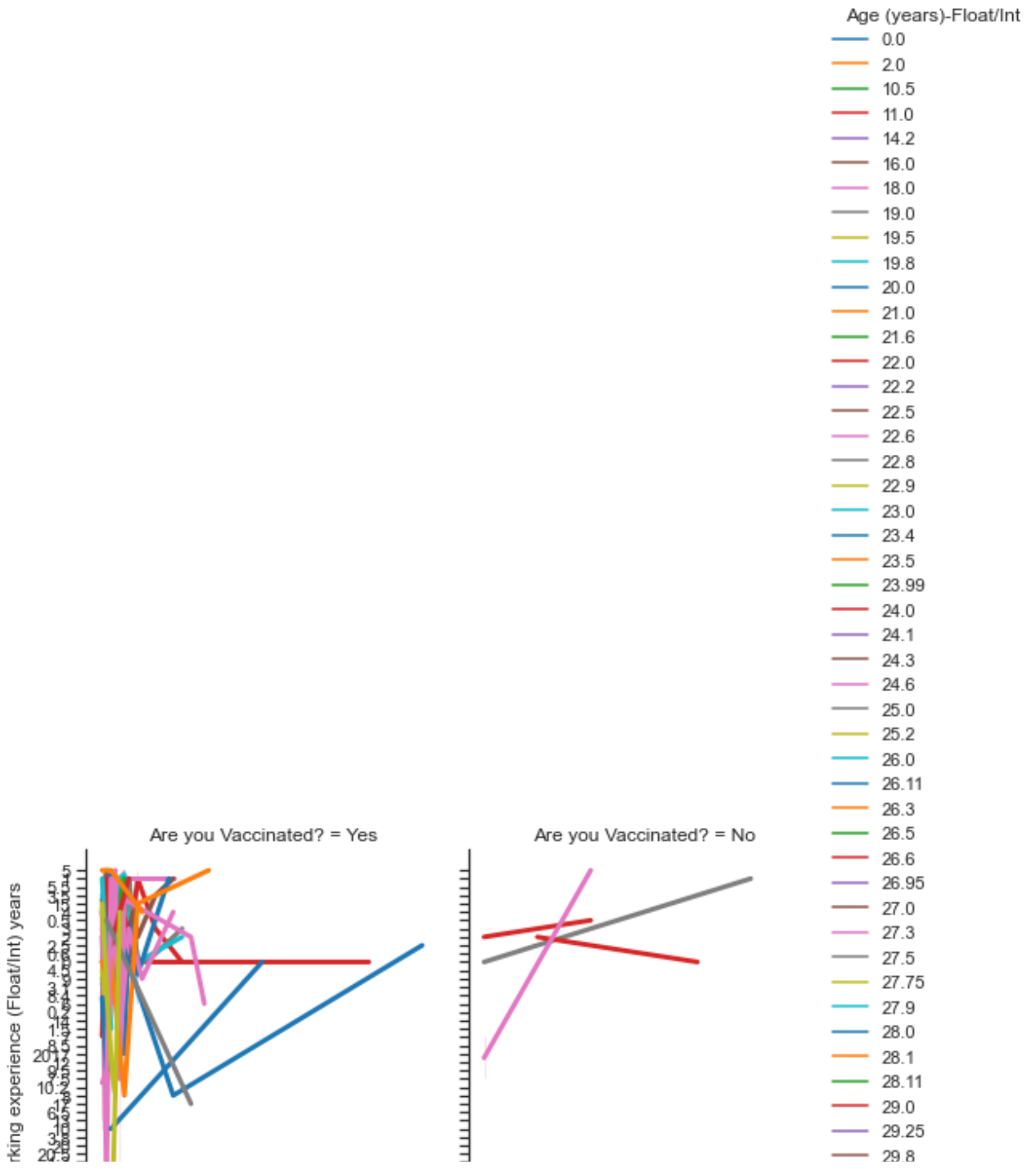


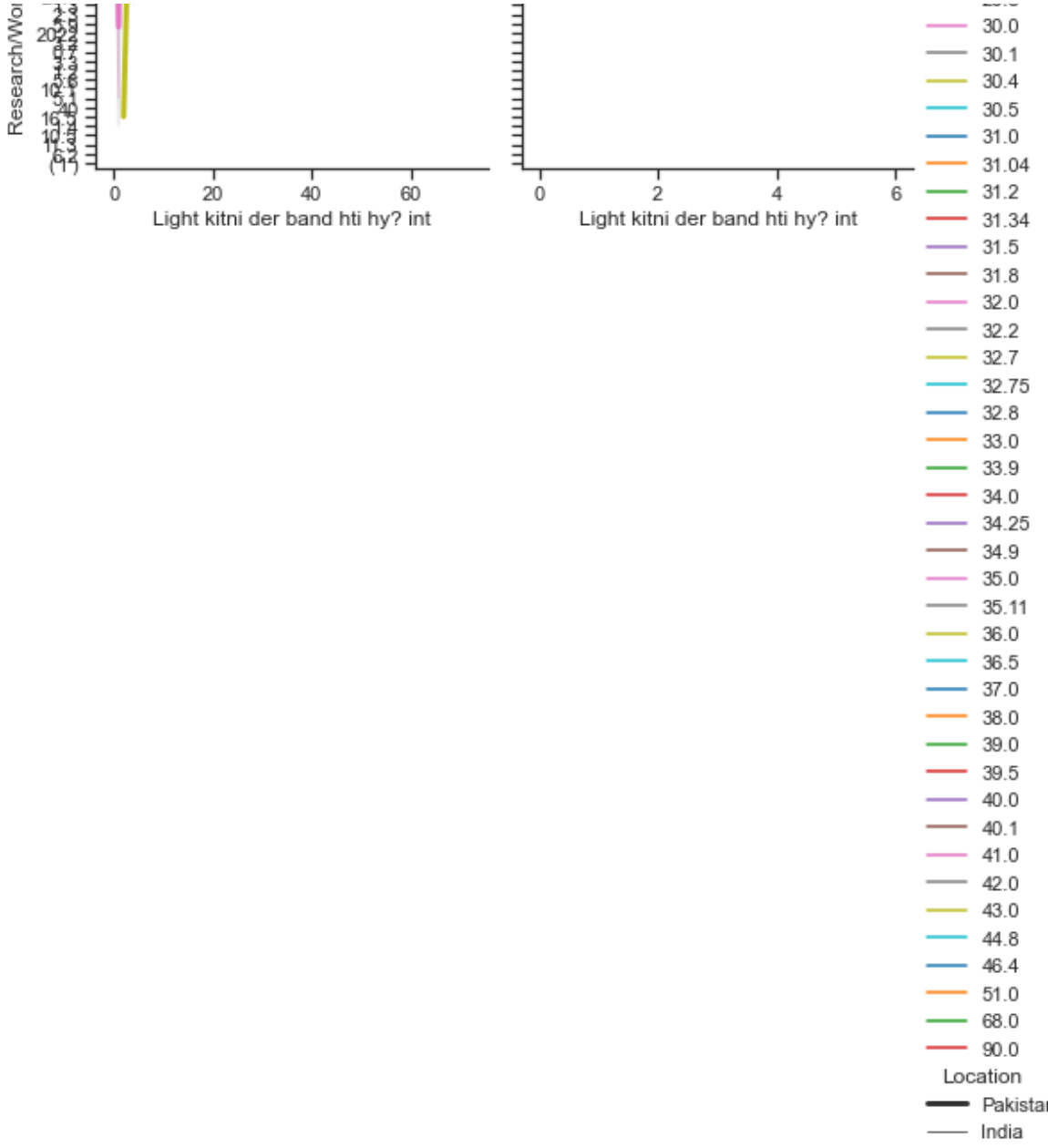


Add Facet Element

In [14]:
```
import seaborn as sns
sns.set_theme(style="ticks")

day5=pd.read_csv("C:/Users/Yasir Mehmood/Downloads/Python Programs/Chilla_data2_for_plo

# Define the palette as a list to specify exact values
palette = sns.color_palette("rocket_r")

# Plot the lines on two facets
sns.relplot(x="Light kitni der band hti hy? int", y="Research/Working experience (Float
            hue="Age (years)-Float/Int", size="Location", col="Are you Vaccinated?", ki
            size_order=["Pakistan", "India"], palette="tab10", height=5, aspect=.75, fa
```

Out[14]:
```
<seaborn.axisgrid.FacetGrid at 0x1e172be1ca0>
```




Research/Wo
0
20
40
60
Light kitni der band hti hy? int
0
2
4
6
Light kitni der band hti hy? int
30.0
30.1
30.4
30.5
31.0
31.04
31.2
31.34
31.5
31.8
32.0
32.2
32.7
32.75
32.8
33.0
33.9
34.0
34.25
34.9
35.0
35.11
36.0
36.5
37.0
38.0
39.0
39.5
40.0
40.1
41.0
42.0
43.0
44.8
46.4
51.0
68.0
90.0
Location
Pakistan
India

In [ ]:

In [ ]:

In [ ]: