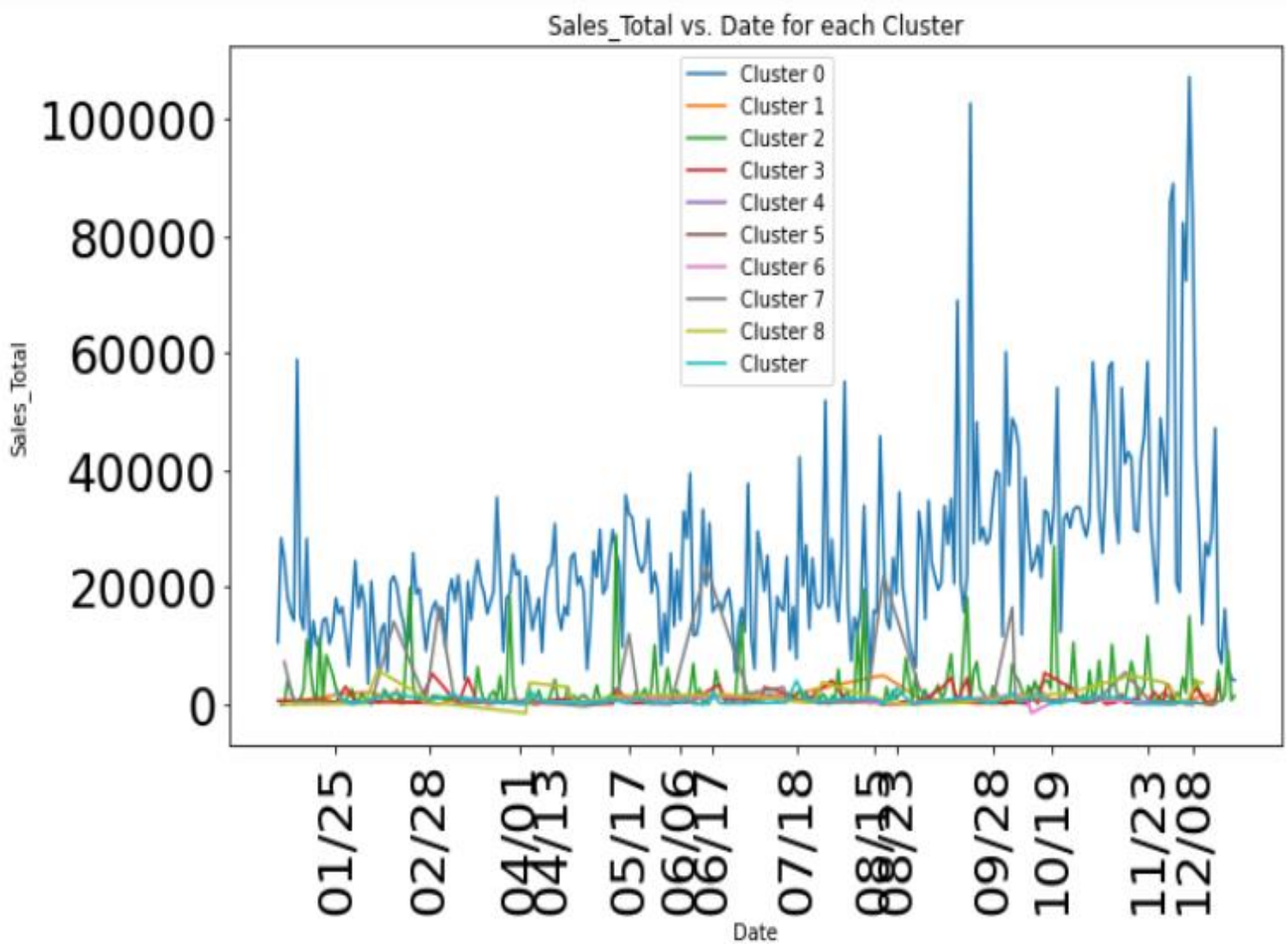


Date and clusters

To get idea about dates and sales on that on each cluster we plotted graph of Date vs Total_Sales for each cluster using matplotlib.pyplot.

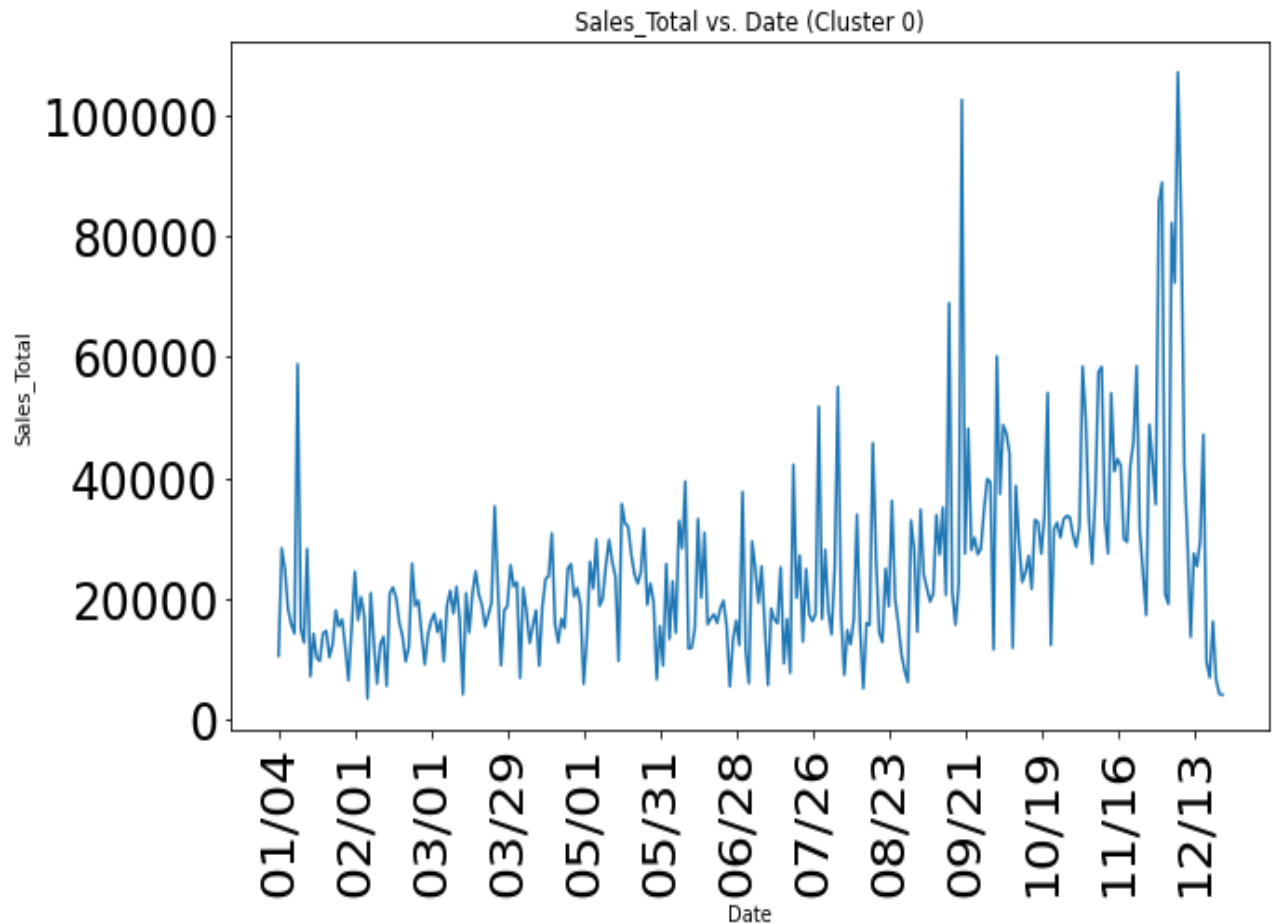
```
cluster_info = {  
    0: ['France', 'Portugal', 'Spain', 'Ireland', 'United Kingdom', 'Iceland'],  
    1: ['Israel', 'Lebanon', 'United Arab Emirates', 'Saudi Arabia', 'Cyprus'],  
    2: ['Poland', 'Austria', 'Lithuania', 'Germany', 'Greece', 'Switzerland',  
        'Belgium', 'Netherlands', 'Italy', 'Denmark'],  
    3: ['Norway', 'Sweden', 'Finland'],  
    4: ['Brazil'],  
    5: ['South Africa'],  
    6: ['Canada', 'United States of America'],  
    7: ['Australia'],  
    8: ['Japan']  
    ** Unnamed cluster is for other countries  
}
```

Plots-



This is all cluster in one plot.

Cluster 0 is dominating.



This is plot only for cluster 0 (UK and Neighbouring European countries)

We can see maximum sales are around 10th December, 25th November and 20th September. January to September sales are around 35000 to 60000.

We plotted for every cluster individually as follows: --

