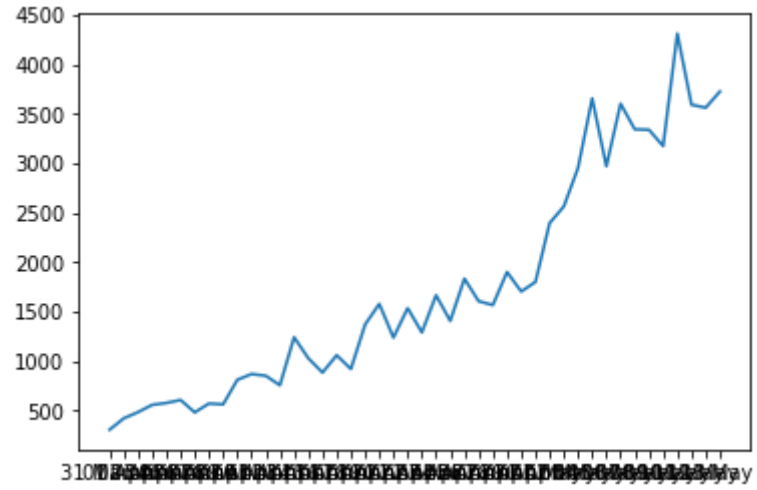
COVID-19 VISUALISATION

Plotting Simple Plot

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt


data = pd.read_csv('case_time_series.csv') #Initializing Dataset

Y = data.iloc[61:,1].values #Stores Daily Confirmed
R = data.iloc[61:,3].values #Stores Daily Recovered
D = data.iloc[61:,5].values #Stores Daily Deceased
X = data.iloc[61:,0] #Stores Date

plt.plot(X,Y)
```

```
[<matplotlib.lines.Line2D at 0x7f29cb8f9d50>]
```

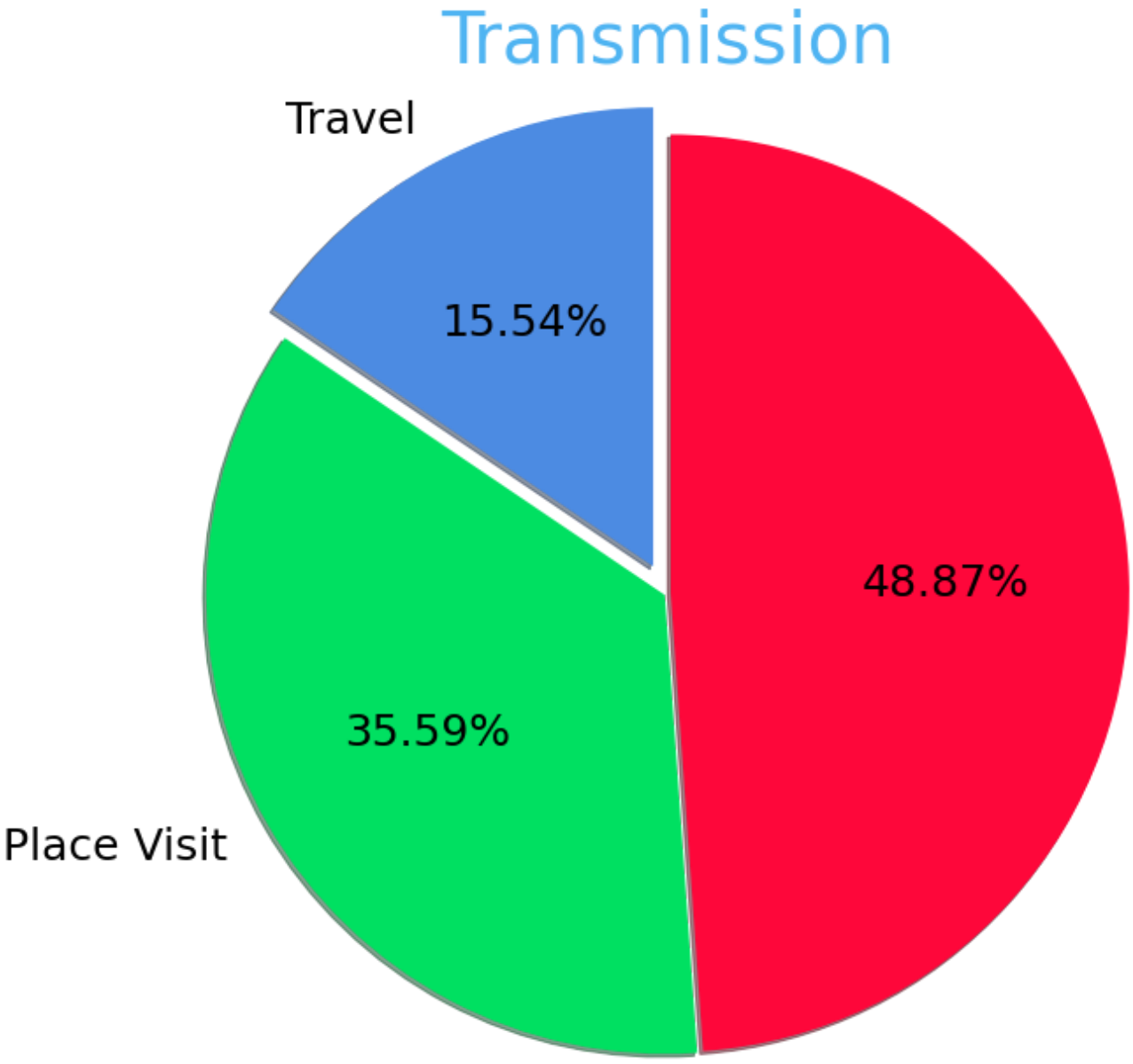


Pie Chart

```
#Initializing Dataset
slices = [62, 142, 195]
activities = ['Travel', 'Place Visit', 'Unknown']

#Plotting Pir Chart
cols=['#4C8BE2','#00e061','#fe073a']
exp = [0.2,0.02,0.02]

plt.pie(slices,labels=activities,
    textprops=dict(size=25,color='black'),
    radius=3
```

```
        radius=3,
        colors=cols,
        autopct='%2.2f%%',
        explode=exp,
        shadow=True,
        startangle=90)

plt.title('Transmission\n\n\n\n',color='#4fb4f2',size=40)
```

```
Text(0.5, 1.0, 'Transmission\n\n\n\n')
```



Bar Plot

```
#Initializing Dataset
data = pd.read_csv('district.csv')
data.head()

re=data.iloc[:30,5].values #‘re’ stores Recovered corona patients count for all districts
de=data.iloc[:30,4].values #‘de’ stores Deceased corona patients count for all districts
co=data.iloc[:30,3].values #‘co’ stores Confirmed corona patients count for all districts
```

```
x=list(data.iloc[:30,0]) #‘x’ stored District names

#Plotting Bar Chart
plt.figure(figsize=(25,10))
ax=plt.axes()

ax.set_facecolor('black')
ax.grid(linewidth=0.4, color='#8f8f8f')


plt.xticks(rotation='vertical',
    size='20',
    color='white')#ticks of X

plt.yticks(size='20',color='white')


ax.set_xlabel('\nDistrict',size=25,
      color='#4bb4f2')
ax.set_ylabel('No. of cases\n',size=25,
      color='#4bb4f2')


plt.tick_params(size=20,color='white')


ax.set_title('Maharashtra District wise breakdown\n',
      size=50,color='#28a9ff')

plt.bar(x,co,label='re')
plt.bar(x,re,label='re',color='green')
plt.bar(x,de,label='re',color='red')

for i,j in zip(x,co):
  ax.annotate(str(int(j)),
        xy=(i,j+3),
        color='white',
        size='15')

plt.legend(['Confirmed','Recovered','Deceased'],
    fontsize=20)
```

```
<matplotlib.legend.Legend at 0x7f29cb7f1990>
```