

PNT2022TMID21280_Efficient Water Quality Analysis & Prediction using Machine Learning.

Water Quality Index(Wqi) Calculation-2:

```
In [22]: data['nec']=data.co.apply(lambda x:(100 if(75>=x>=0)
                                         else(80 if(150>=x>=75)
                                         else(60 if(225>=x>=150)
                                         else(40 if(300>=x>=225)
                                         else 0))))))
```

```
In [23]: data['nna']=data.na.apply(lambda x:(100 if(20>=x>=0)
                                         else(80 if(50>=x>=20)
                                         else(60 if(100>=x>=50)
                                         else(40 if(200>=x>=100)
                                         else 0))))))
```