So, since our topic is based on air pollution monitoring using IOT and data visualization
or machine learning.
So, we have built this device which has the gas sensor in it, the node ends you and there
are two LEDs and a servo motor.
Now, a scrubber will be automated like this servo motor, this gets automated.
Now this scrubber will clear the air and otherwise the pollution over that area can be controlled.
So, there is the pollution level currently is above the threshold value.
So, this very ready is glowing.
So, we are considering this body spray as a source of pollution and we are trying to
spray this on this pollution sensor.
So, we have considered a prototype here taking suppose installing this device in three different
locations and here is the data that has been generated that is been collected in real
time.
So, where it and now what we have done is we have created a data set.
So, here is what we have done about the pollution visualization part.
So, here is our data that has been collected and what we did is we exported the data into
this file called pollution stock CSV and we have collected the sample pollution data
of three different locations where have where we have installed this device as a prototype
as an example to collect the pollution of three different regions and here is how we
have visualized it.
So, here is the data that has been imported we are using over here the Jupyter node book
and the Python programmable language.
So, we have visualized that the hourly pollution level like charging is on it.
This is the pollution level the higher than the other the more it is the pollution.
So, we can see that this is the date and this is the hour part.
We can see that the pollution is relatively lower during the time of 8 to 9 am then 1
pm to 2 pm and is is in a you know in larger in this is there in larger amount during the
time of 10 to 10 to 11 am and 11 am to 12 am.