Good Afternoon Everyone,

I am Om from Xavier School of Computer Science and Engineering, before getting into my presentation I would like to express my sincere appreciation to my teammates and my professors without them this work would be a difficult task.

And I would also thanks Xavier School of Human Settlements for giving us an opportunity to present our topic.

Our topic is about AI_AF_AQI

In the next (N-1) mins we will be covering all the parts but due to time constraint I will be able to give you small overview of everything but I'll try to explain our result.

I am not going spend time in explaining what is air pollution as we know Air Pollution has been a serious problem of the current time.

And the sources for pollution are mainly factories, power plants and fuel combustion.

In general, there are 2 types of air pollutants

1) Primary---→ Directly have impact on health
2) Secondary-→ React with sunlight to produce some harmful compound.

Our Predictive model will be primarily focusing on Particulate Matter, so PM is sum of all solid and liquid particles suspended in air and are harmful to health.

We can see a pictorial representation of PM.

This is a snap that indicates disease that are caused due to Air Pollution And It also some impact on business in the long run. Some factories may see their production reduced due to poor health of workers.

Motivation (Reason that motivated us to work on this research paper is the growing emergence of Amravati, this future city of India may face the same problem as of other metropolitan cities if not properly developed by taking all environmental constraints into consideration) → **Contribution** (We have developed a predictive model using LSTM to predict the Air Quality and provide some preventive measures to avoid any futuristic pollution in Amravati)

We have collected the data from 1 Jan 2017 to 31 Jan 2020 from CPCB for different monitoring stations in different cities

And after data pre-processing our data looks like this.

As I said we'll be using LSTM (In short they try to copy how neurons in our brain work) for our predictive model and we are indicating PM2.5 as our primary parameter and representing it by help of 7 layers of input.

EXPERIMENTAL SETUP
RESULT
MESASURES TO CONTROL
CONCLUSION