**PROJECT REPORT**

**ON**

**“EXPERIMENTAL STUDY OF IOT AND DATA SCIENCE ROLE IN ATMOSPHERIC ANALYSIS”**

**Submitted to**

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY

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Minor Project Evaluation

For The Partial Fulfilment for the degree of

Batchelor of Technology

In

Information Technology

Submitted By:

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**DECLARATION**

I, RASHBIR SINGH, RASHI SRIVASTAVA and AVI BHARDWAJ student of B.TECH 7th Semester, studying at Amity University, Noida, hereby declare that the minor project report on “**EXPERIMENTAL STUDY OF IOT AND DATA SCIENCE**” submitted to Amity University, Noida in partial fulfilment of Degree of Bachelor’s in Information Technology is the original work conducted by us. Under the Guidance of Mr. Vikas deep, Assistance professor, Department of Information and Technology, Amity School of Engineering and Technology, AUUP Noida. The information and data given in the report is authentic to the best of my knowledge. This minor project report is not being submitted to any other University for award of any other Degree, Diploma and Fellowship.

Date:

Rashi Srivastava,

Avi Bhardwaj,

Rashbir Singh

**CERTIFICATE**

This is certify that this report entitled “**EXPERIMENTAL STUDY OF IOT AND DATA SCIENCE**”is a bonafied record of the work done by Avi Bhardwaj [7-IT-1] enrolment no. A2305315037,Rashbir Singh [7-IT-1] enrolment no. A2305315020 and Rashi Srivastava [7-IT-1] enrolment no. A2305315003 of this institute in its B.Tech-IT [2015-2019] program for Minor project Evaluation 2018-2019, under the guidance of faculty guide, Mr.Vikas deep, Assistant professor, Department of Information Technology ,Amity School of engineering and technology, AUUP, Noida.

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**RASHI SRIVASTAVA,**

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**ABSTRACT**

The three basic needs of the human to survive are air, water and food out of which too air is the most important. But the humans are themselves destroying their survival conditions for present and future by their activities causing pollution of various type one of which is air pollution. The air pollutants could be categorized as pollutant gases (SO2, NO2, CO, etc.) and suspended particles (pm10, pm2.5, etc.). The global burden of disease study estimated 695,000 premature deaths in 2010 due to continued exposure to outdoor particulate matter and ozone pollution for India. By 2030, the expected growth in many of the sectors (industries, residential, transportation, power generation, and construction) will result in an increase in pollution related health impacts for most cities. The available information on urban air pollution, their sources, and the potential of various interventions to control pollution, should help us propose a cleaner path to 2030.

As a result of this information this project aims to find out how emerging technologies of IT industry like Machine Learning, Iot, Cloud, Natural Language Processing and Voice Automation could help humanity to deal with this threat to mankind in easier and smarter way. In this project above mentioned technologies have been used practically to learn and demonstrate how they could effect learning and experience from atmospheric conditions.