

## 15. Predicting How Riskier an Area can be in Covid Pandemic Situation using Supervised Machine Learning Algorithm

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### Abstract

COVID'19 virus has effected the economy and lifestyle of people globally. Currently, as per World Health Organization (WHO) dated 18<sup>th</sup> March, 2021, India is experiencing second wave of Covid virus where number of cases is increasing on a daily basis. In current situation, science and technology plays a very important role in dealing with pandemic situation. Technology such as Artificial Intelligence can help us to identify the symptoms and predict how safe a person is. Combination of Internet of Things and Artificial Intelligence can help us to check whether proper precautions are taken or not. Researches are on in predicting whether a person is covid infected, or whether an infected person is in my vicinity and so on. Machine Learning, an application of artificial intelligence (AI), provides systems the ability to automatically learn and improve from experience without being explicitly programmed. The proposed system works on identification of different parameters and works on predicting which area to be riskier in future by using a supervised machine learning prediction model called as multivariable linear regression.

**Keywords:** Covid, WHO, Machine Learning, Artificial Intelligence, Prediction, linear regression, supervised learning.

### Introduction

Covid'19 pandemic situation has changed everyone's lifestyle, have taught people to learn and unlearn many things, but number of Covid cases in India is rising day by day. The role of science and technology is significant in this situation. Technology such as Machine Learning allows the computer learn automatically without human intervention or assistance and adjust actions accordingly. Different algorithms are proposed under machine learning which can be categorized as Supervised, Unsupervised, Reinforcement Machine Learning Algorithms [1]. The