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## Patent Search

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### Abstract:

Acting on global warming to stop it is one of the sustainable development goals set by United Nations (UN). According to UN, global emissions of carbon dioxide have by almost 50% since 1990. It leads to climate change and eventually result in global warming which has adverse effects on human health and well-being besides causing increased natural calamities across the globe. Therefore, climate action is indispensable and every nation has to contribute towards combating global warming. Towards the current invention is meant for building an AI enabled system for estimating impact of global warming on human health. It makes use of Machine Learning (ML) and Deep Learning (DL) techniques for performing big data analytics to process different datasets which are very complex. Datasets related to pollution, global warming and health are used to arrive at estimating human health affected by global warming. Apache Spark is the distributed computing framework used for implementation of the invention based on AI and assisted by cloud for scalability and availability. By using multiple datasets with many AI assisted techniques, the current invention estimates impact of global warming on human health. The current invention is beneficial to stakeholders such as governments, healthcare departments, organizations dealing with environmental researchers and academia.

### Complete Specification

#### Description:FIELD OF INVENTION

The current invention is meant for building an AI enabled system for estimating impact of global warming on human health. It makes use of Machine Learning (ML) Deep Learning (DL) techniques for performing big data analytics to process different datasets which are very complex. Datasets related to pollution, global warming health are used to arrive at estimating human health affected by global warming. Apache Spark is the distributed computing framework used for implementation of invention. It is based on AI and assisted by cloud for scalability and availability. By using multiple datasets with many AI assisted techniques, the current invention estimates impact of global warming on human health.

This invention is based on AI which includes ML models and DL models used appropriately for big data analytics. It also makes use of multiple datasets of different categories such as pollution, global warming and human health. It has provision for strong data pre-processing as it is essential for improving quality of data for machine learning. The invention is designed to cope with big data that is very large volumes of data is processed. For this reason, cloud-assisted Apache Spark is used for parallel processing of data. Big data analytics on pollution data produces results that are used in global warming analytics. Global warming dataset is used for this analysis. results of this analytics is used in the next step that is finding impact of global warming on human health.

#### BACKGROUND OF THE INVENTION

Acting on global warming to stop it is one of the sustainable development goals set by United Nations (UN). According to UN, global emissions of carbon dioxide have

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