Covid-19 Studies Using Machine Learning and Artificial Intelligence Applications

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Motivation

Under the current circumstance, we the students of UMKC feel the pardon of making a move to participate in solving and studying the well-known virus that has conquered the world entirely. This virus and its dominance are the strongest motivations to point the guns of knowledge and all the resources toward this area and focus currently on this issue that everyone today thinks that it is a major concern.

SIGNIFICANCE

According to worldometers.info, there are 142,178 active cases in the united states alone by today, the 29th of March 2020 ("Coronavirus Cases"). The importance of taking an action regarding the pandemic is crystal clear since there is no cure yet for this virus and the spreading rate of it is quietly significant. According to the same resource, the total deaths since the beginning of this virus in china is 33,976 and the number is increasing day by day.

OBJECTIVES

The main objectives of this project are to apply what we have studied under this course of machine learning algorithms, applications, and techniques on different datasets available and published online and try to study the essence, the common attributes, and properties of this virus in a way t come up with any patterns that this virus follows.

FEATURES

The project will provide different studies concerning the well-known virus, Covid-19. We will be using AI libraries and machine learning algorithms on datasets of coronavirus as a case study and try to extract features and properties from them. For now, mainly we will use the python programming language to serve this goal with different implemented libraries such as Scikit-learn, TensorFlow, PyTorch, and Keras. The progress of this project will be reported on the milestones set by the instructor with a proper citation to any updates in this regard.

References

After seeing many highly recommended datasets published online that describe and state this virus, the team decided to make the project based on this information and datasets. Many resources provide hourly updated datasets and streams to the public and one of those resources is kaggle.com. The choice of which is the most suitable for this project will be mentioned in the up-comping reports, but the scope of the project is already targeted and the work on these datasets has already been established.

Work cited

"Coronavirus Cases." Worldometer, www.worldometers.info/coronavirus/.