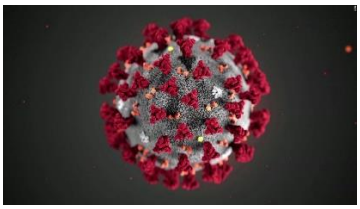

**PROPOSED IDEAS TO COUNTER COVID-19 WITH THE HELP OF MACHINE LEARNING AND AI**

**(EUROPE)**

Human being has not conquered the nature yet and this statement has been proving itself since December 2019, when the first case of new species called as corona virus came into light from the region Wuhan, China. None of us ever thought at that moment this new upcoming virus going to make the whole world down with in the span of just 3 months and would be turned into a life-threatening disease. In the initial stage Some local doctors of china were trying to stop this disease locally and with all the medical means as much as they can but gradually situation got out of control and by this time the world is struggling with huge loss of lives cumulative total death reported 65,841 with 1,218,114 total confirmed cases, at this time highly effected continent is Europe mainly (Italy, Spain, Ireland).my main focus on these nations are because these are said to be the best nation in whole Europe equipped with best premium hospitals which consist of advance technology. Unfortunately, many of these countries medical services collapsed due to abnormally increasing in the patients specially in Italy and Spain.

Since highly qualified and experienced para medical teams have been trying hard to figure out how to stop this deadly disease but still they are getting much challenges because it's a novel virus for them to study and they still don't have enough data to make decisions on how to make vaccine for this, as everyone is giving their ideas on how to stop this pandemic disease .I **SANYAM** as a student of data analytics think that on the behalf of data science community we can help doctors by giving them rough idea or I could say some estimations on which they have to test for COVID Virus either they have to test patient or not.

**MAJOR CONSIDERATIONS**

- **Since this virus is novice to all the doctors and have new properties that's why they don't have enough facts to make vaccine**
- **Doctors are unsure about whom to test because of same symptoms generated by covid-19 and influenza.**
- **limited amount of life saviour machines presents in hospitals which makes hard to understand to doctors which patient they have to put on ventilator for real.**

**ASSUMPTIONS THAT I MADE?**

- **Population is in huge number.**
- **Availability of hospitals and ventilators are limited.**
- **Group of qualified doctors.**

**IDEA PROPOSED**

- **The idea is to stop the spreading of virus by prioritizing the tests and detect them quickly.**
- **Data should be collected on the basis of symptoms.**
- **The algorithms should be trained on detecting the infection in person based on probability.**
- **If large number of people claim they are feeling symptoms this model should be capable of identify which one need to shift on ventilators for real and which one has simple flu.**

**FEATURES**

- **All the symptoms of flu must be taken into consideration. Since it got similar to covid-19.**

**LABELS**

- **Probability of covid-19 infection.**

**EXPECTED OUTPUT**

- **The algorithm should be converted into framework like Django in UI form.**
- **Doctors can tick all the provided labels in dashboard as complaint by patients.**
- **And BOOM! The expected probability will be on screen. Which helps doctors to prioritize the patients between who need emergency looking after for real.**

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(5-04-2020)