# **ABSTRACT**

The novel coronavirus disease 2019 (COVID-19) pandemic caused by the SARS-CoV-2 continues to pose a critical and urgent threat to global health. Effective screening of SARS-CoV-2 enables quick and efficient diagnosis of COVID-19 and can mitigate the burden on healthcare systems. Prediction models that combine several features to estimate the risk of infection have been developed. In this project, we **(Group 17, Batch 1)** aim to:

1) Analyze the world-wide covid data procured from [our world in data](https://github.com/owid/covid-19-data/blob/master/public/data/owid-covid-codebook.csv) which include variables such as confirmed cases, confirmed deaths, tests conducted, hospitalization details, vaccination details and other such features, and to build a regression model that will predict new covid cases reported worldwide.

2) Create a web application based on a classification model that will predict the chances of a person having COVID-19, given certain symptoms, using data originally from Israeli Ministry of Health website available at [nshomron](https://github.com/nshomron/covidpred/blob/master/data/corona_tested_individuals_ver_006.english.csv.zip).