**Guidelines for Mini-capstone project**

In this mini-capstone project the participants are expected to choose one of the COVID-19 datasets listed in the end.

This project involves working on real time Covid-19 dataset. The focus here is not only on the project outcome but also ensuring that every member of the team has a meaningful experience on how real world data science problems are solved. Solving this problem not only improves your data science problem solving skills but also provides you with a competitive edge towards your career transition.

Participants are expected to apply the techniques learnt till supervised learning, precisely machine learning techniques and should come-up with implementable and quantifiable solutions/results.

**Team size** – Minimum of 4, Maximum of 5 participants

Duration of the project – 60 days (After Team formation and Problem statement selection)

Mentor - Dr. Narayana (Academic director, Great Learning)

Synopsis – 2 weeks/15 days after project start (Including 10 Days for literature survey) - 5 marks

Final report – 5 Weeks / 35 days after synopsis - 5 marks

Conference paper - 10 days after final report - 5 marks

***Expectations***:

Students to form their Whatsapp group and add Program Manager, Dr.Narayana.  
Also, Zoom or google meeting links to be provided by candidates and shared with Dr. Narayana in their respective WhatsApp group. Meeting request has to be raised by the students at least before two days.

**Conference paper**

Note: If there is a conference fee to attend the conference where paper is accepted for publication, this fee needs to be shared among all authors in the paper.

Weightage:

**This project carries 15 percent of the final capstone project.**

**COVID-19 Datasets**

1. COVID19 Global Forecasting - you will be predicting the cumulative number of confirmed COVID19 cases in various locations across the world, as well as the number of resulting fatalities, for future dates.

<https://www.kaggle.com/sagarnilbose/covid-19-time-series>

2. COVID-19 diagnostic - Predicting covid-19 result

<https://www.kaggle.com/c/covid-diagnostic/data>

3. COVID-19 Tracking Germany - Death/recovery Rate prediction

<https://www.kaggle.com/headsortails/covid19-tracking-germany>

4. COVID-19 US County JHU Data & Demographics - Death Rate prediction

<https://www.kaggle.com/headsortails/covid19-us-county-jhu-data-demographics#us_county.csv>

5. Incubation period of coronavirus

<https://github.com/HopkinsIDD/ncov_incubation>

6. COVID-19 outbreak, real-time case information

<https://www.kaggle.com/panosc/covid19-outbreak-realtime-case-information>

7. COVID-19 latent period computational experiment - Latent period prediction

<https://www.kaggle.com/dgrechka/covid19-latent-period-computational-experiment#Austria-0_05.csv>

8. COVID-19 transmission periods per week per country - Estimating transmission period

<https://www.kaggle.com/dgrechka/covid19-transmission-periods-per-week-per-country#Afghanistan.csv>

9. Coronavirus in Italy (COVID-19)

<https://www.kaggle.com/paultimothymooney/coronavirus-in-italy>

10. COVID-19 Dataset

<https://www.kaggle.com/imdevskp/corona-virus-report>

11. COVID-19 Open Research Dataset Challenge (CORD-19)

<https://www.kaggle.com/allen-institute-for-ai/CORD-19-research-challenge>

12. COVID-19 in India

<https://www.kaggle.com/sudalairajkumar/covid19-in-india>

13. COVID-19 US County-level Summaries

<https://www.kaggle.com/jieyingwu/covid19-us-countylevel-summaries>

**Literature survey resources**

<https://www.kaggle.com/covid-19-contributions>

<https://scholar.google.com/>

<https://aimi.stanford.edu/resources/covid19>