covid-19: CAPSTONE PROGRESS REPORT

# Project Summary

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| Report date | Project Name | Prepared By |
| 06/APR/2020 | COVID-19: A COMPLETE CASE STUDY | Akhila Joseph |

# PROBLEM statement

The outbreak of Covid-19 has developed into a major international crisis and has starting to impact important aspects of daily life with emergencies and lockdowns across countries.

# PROBLEM objective

The objective of the project is to perform a comprehensive analysis of the situation, understand global health, global economy and psychological impact it brings to the world. Further to that, build a strong model that predicts the progression of the virus (confirmed cases, recovery cases and deaths) in 2nd half of April 2020 to help with mitigation efforts.

# Status Summary

Primary EDA has been completed on Covid-19 John Hopkins dataset and scraped tweets on Covid-19. Dashboard developed for Covid-19 in Tableau, explaining key indicators:

1. Global Health Indicators
2. Demographic Indicators (for available countries – China, Spain, South Korea and Italy)
3. Worldwide Government Response Indicators
4. Economic Indicators (based on key stock index from US, Europe, China, Japan and India)

# Project TO-DO

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| --- | --- | --- | --- |
| task | % Done | Due date | notes |
| Data cleaning | 100% |  |  |
| EDA - Visualization | 90% | 23-Apr-2020 | Include predictions and topical modeling |
| Perform topical modelling on related tweets | 0% | 13-Apr-2020 |  |
| Perform prediction with regression modeling | 0% | 13-Apr-2020 |  |
| Project presentation | 0% | 23-Apr-2020 |  |