



ASHOKA
UNIVERSITY

AshokaX

Professional and Executive Development Program in **Data Science for Social Impact**

Project 1
Sep. 29 – Nov. 18, 2023



Project 1 – done individually

- **Task: analyze datasets using tools that you have learned and submit a report**
 - Choose from one of five themes
 - COVID19, Weather/Air quality, Agriculture, Text analytics, Crime
 - Add datasets of your own if necessary (LCs will help you)
- **Expectations: demonstrate your skills**
 - extract and analyse basic statistics from the dataset (using Excel)
 - generate appropriate charts and graphs for these statistics (using Excel)
 - run clustering and/or classification algorithms and/or any other ML/statistical techniques to answer at least two meaningful questions on the datasets
 - You will formulate these questions on your own as you explore the dataset
 - ability to visualise datasets on a map (this means that the datasets should have a geographical component associated with them)
 - ability to use advanced visualisation tools

Submission

- **At the end of the project, you will submit a report outlining your findings**
 - *Introduction to the datasets*
 - Including those that you found on your own
 - *Preliminary exploration of the datasets*
 - Consisting of basic statistical analysis
 - *Advanced analysis*
 - Consisting of interesting questions that you answered
 - What methods were used to answer these questions
 - *Appropriate visualizations over maps and using advanced visualization techniques*
 - Find datasets that complement the starting datasets
 - *Conclusions*

Next steps

- **LCs will share the spreadsheet of datasets**
- **A form will be floated for you to enter your preferences**
 - We will try our best to assign you your first choice
- Progress update every two weeks
- VMs will be provided on request