

\EPIDEMIC

Description:

Mathematical models are a key tool for guiding public health measures, and in times as dire as we crossed, the importance of measures and outputs from epidemiological modelling analyses and simulations are important to optimize strategies concerning potential economic and mental health effects of interventions when deciding how to intervene. These models can demonstrate important principles about outbreaks and determine which interventions are most likely to reduce case numbers effectively. Escape Epidemic ; \Epidemic presents you with an opportunity to step into the boots of an epidemiologist, a decision maker in a simulated epidemic, where you are in charge of modelling the course of it's spread and design the required interventions to flatten the curve.

Team Structure:

- A maximum of 3 participants can register as a team.

Timeline:

- A detailed problem statement will be issued on 10th of May, 12 pm
- A total of 3 submissions can be made by a team during the course of the event, which will be run on the simulation. The live scores will be updated at a fixed time each day.
- The event lasts till 15th of May EOD.

Judging Criteria:

- The problem statement has a set of guide questions which are to be solved and submitted with the final submission, completion of these account for 30 % of the total points. The remaining 70 % comprises of the designed intervention and it's effectiveness which will be measured by a custom evaluation metric.

Rules and Regulations:

- Teams can register anytime during the course of the event.
- The code must be shared in the form of a google colab notebook.
- Taking help of the internet or research papers is encouraged to formulate the model in the best possible way.

Submission:

Submission procedure and links will be explained in the detailed problem statement.

Event Coordinators:

Aditya Prakash : 8809474022