My code (Haridas Das):

- haridas_monkey_pox_data_analysis.ipynb code is used for all python analysis for Kaggle data engineering, Spatial analysis; A few Classifier: k-nearest neighbors (KNN), Decision tree classifier(DTC), Random Forest Classifier(RFC), Sup- port Vector Machine(SVM), and Logistic Regression Clas- sifier(LOGREG). Time series analysis: Historical daily and weekly data analysis, (ARIMA)
- 2. monkeypox df.csv is the Kaggle data is used in the Python code
- 3. MonkepoxSirFittingCombined.m fitting the SIR model that includes the ode45 Matlab command for SIR simulation.
- 4. time series df.csv is used in the Matlab code
- 5. eulsys.m function is for the Euler method's code for solving any first order system
- 6. eulmodsys.m function is for the Modified Euler method's code for solving any first order system
- 7. rk4sys.m function is for the Runge kutta method of order 4 method's code for solving any first order system
- 8. model_1.m function is defined the SIR model used in the MonkepoxSirFittingCombined.m function
- 9. SIR_Monkeypox_Euler_Meuler_RK4_odeff.m is the test function ccobnsidered all four methods Euler, Modified Euler, RK4, and ode45(mixed of 4th and 5th order rk4)

Rahaman's Code:

- 10. Forecasting on 7 day rolling average data.jpynb by Rahaman
- 11. 11. Forecasting on daily data.ipynb by rahaman

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All codes are prepared by myself: Haridas Das