**Steps to perform feature selection using Genetic Algorithm:**

1. Run the ‘Genetic\_feature\_selection.py’ code to perform feature selection using genetic algorithm. The ‘Genetic\_feature\_selection.py’ code performs the following operations:
   1. It reads the ‘ETFD\_balanced.txt’ file from ‘2. Data balancing’ folder
   2. It performs genetic algorithm with the proposed novel fitness function on the balanced dataset
   3. It saves the optimal crossover rate, mutation rate, fitness value, and selected features in a csv file

**Steps to generate ETFD dataset with selected features:**

1. Run the ‘ETFD\_Dataset.py’ code to generate the final dataset with selected features. The ‘ETFD\_Dataset.py’ code performs the following operations:
   1. It reads the ‘ETFD\_balanced.txt’ file from ‘2. Data balancing’ folder
   2. It selects the features selected by the genetic algorithm
   3. It saves the final dataset as ‘ETFD\_Dataset.txt’ file