



# **CSE366: Artificial Intelligence (Section 4)**

## **[Spring 2024]**

### **Assignment 2: Robot Task Optimization Using Genetic Algorithm**

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# Assignment: Robot Task Optimization Using Genetic Algorithm

**Summary:** We have solved all the problems mentioned in the "Assignment Details" section. Also, we have prepared a report along with all the documents requested.

Briefly, we have optimized robot tasks using genetic algorithms. Dynamically, we have generated task durations, priorities and robot efficiency. Based on them, we have calculated the fitness function. With the help of a fitness function, we did further tasks like Selection, Crossover, and Mutation. To better understand the project, we have developed a visualization using matplotlib.

## Output:

