**Project 6: Knapsack Problem and Genetic Algorithms/Wisdom of Crowds**

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1. **Introduction**

In this project, we investigated the Knapsack Problem, an NP-complete combinatorial optimization problem. The premise behind this problem is maximizing the value *v* of *n* discrete objects with weights *w* within a knapsack without exceeding its capacity *c*. We combined genetic algorithms with the concept of wisdom of crowds to attempt to find optimal solutions for randomly created Knapsack Problems.

1. **Approach**
2. **Results** 
   1. **Data**
   2. **Results**
3. **Discussion**
4. **References**

M. Hristakeva, D. Shrestha. "Solving the 0-1 knapsack problem with genetic algorithms." *Midwest Instruction and Computing Symposium*. 2004.