

EXPLORED

OPEN EDITORS

GENETICALGORITHM

OUTLINE

TIMELINE

Main.py

README.md

.gitattributes

Main.py

README.md

Create Main.... now

File Saved 42 secs

File Created 2 mins

Main.py

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

child1, child2 = crossover(parent1, parent2)

child1 = mutate(child1, mutation_rate)

child2 = mutate(child2, mutation_rate)

next_generation.extend([child1, child2])

population = next_generation

best_schedule = max(population, key=calculate_fitness)

best_fitness = calculate_fitness(best_schedule)

return best_schedule, best_fitness

if __name__ == "__main__":

best_schedule, best_fitness = genetic_algorithm(population_size=500, mutation_rate=0.01, generations=100)

print("Best Fitness:", best_fitness)

print("Best Schedule:")

for activity, room, time_slot, facilitator in best_schedule:

print(activity, "-", room, "-", time_slot, "-", facilitator)

OUTPUT

TERMINAL

PORTS

GITLENS

SQL CONSOLE

DEBUG CONSOLE

Filter (e.g. text, !exclude)

TERMINAL

Python

/Users/samuelcabrera/Desktop/anaconda3/bin/python /Users/samuelcabrera/Desktop/GeneticAlgorithm/GeneticAlgorithm/Main.py

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit <https://support.apple.com/kb/HT208050>.

(base) macbook-air-4:GeneticAlgorithm samuelcabrera\$ /Users/samuelcabrera/Desktop/anaconda3/bin/python /Users/samuelcabrera/Desktop/GeneticAlgorithm/GeneticAlgorithm/Main.py

Best Fitness: 8.799999999999999

Best Schedule:

SLA100A - Roman 201 - 12 PM - Banks

SLA100B - Beach 301 - 10 AM - Banks

SLA191A - Frank 119 - 12 PM - Glen

SLA191B - Beach 201 - 10 AM - Zeldin

SLA201 - Roman 201 - 1 PM - Zeldin

SLA291 - Frank 119 - 2 PM - Singer

SLA303 - Frank 119 - 11 AM - Banks

SLA304 - Frank 119 - 1 PM - Glen

SLA394 - Slater 003 - 12 PM - Tyler

SLA449 - Loft 310 - 12 PM - Singer

SLA451 - Loft 310 - 11 AM - Tyler

(base) macbook-air-4:GeneticAlgorithm samuelcabrera\$

main

0 0 0

Connect

Ln 133, Col 1

Spaces: 4

UTF-8

LF

Python 3.11.5 ('base': conda)

Go Live