

Databases

The data is stored in sqlite3 databases. Each database consists of two tables: one for the actual data, one for the parameters of the algorithm at the time of execution. These are the names of the tables, the names of the columns and their datatypes:

Music.db

music

id	genotype	fitness	parent_0	parent_1	generation	run
INT	TEXT	FLOAT	INT	INT	INT	INT

GA_parameters

run_id	population_size	number_of_generations	mutation_rate	elite_selection	crossover_type	crossover_chance
INT	INT	INT	FLOAT	INT	TEXT	FLOAT

Knapsack_3.0.db

knapsack

id	genotype	run	fitness	parent_0	parent_1	Generation
INT	TEXT	INT	INT	INT	INT	INT

knapsack_parameters

run_id	population_size	number_of_generations	mutation_rate	elite_selection	crossover_type	crossover_points
INT	INT	INT	FLOAT	INT	TEXT	INT