Optimization Algorithm Comparison

This document contains the results from various optimization algorithms (Genetic Algorithm, Firefly Algorithm, etc.) used to optimize hyperparameters for training a neural network on the Iris dataset.

# Genetic Algorithm Results

Best Hyperparameters: [-3.0110646961332113, 2.0, 35.397865938826016]

Best Accuracy: 0.9666666388511658

# Firefly Algorithm Results

Best Hyperparameters: [-1.89481917, 1.13856388, 8.06386333]

Best Accuracy: 1.0

# Firefly Crow Search Algorithm Results

Best Hyperparameters: [-1.60891367, 1.24852622, 39.75667506]

Best Accuracy: 1.0

# GWO Results

Best Hyperparameters: [-3.06950381, 1.5586003, 39.21930145]

Best Accuracy: 1.0

# PSO Results

Best Hyperparameters: [-2.4940564725751453, 1, 28]

Best Accuracy: 1.0

# ACO Results

Best Hyperparameters: [-1, 1, 5]

Best Accuracy: 1.0

# ABC Results

Best Hyperparameters: [-2.41500388, 1.45785269, 35.61580025]

Best Accuracy: 1.0

# OBC-WOA Results

Best Hyperparameters: [-1, 1, 23.67450663]

Best Accuracy: 0.96

# FCR Results

Best Hyperparameters: [-1.06421716, 3, 43.61462295]

Best Accuracy: 1.0