Queen's University – Smith Engineering

ELEC 425 – Assignment 2 Fall 2025

Submitted by:

Erhowvosere Otubu – Student Number: 20293052

Date Submitted: [Insert Here]

# Table of Contents
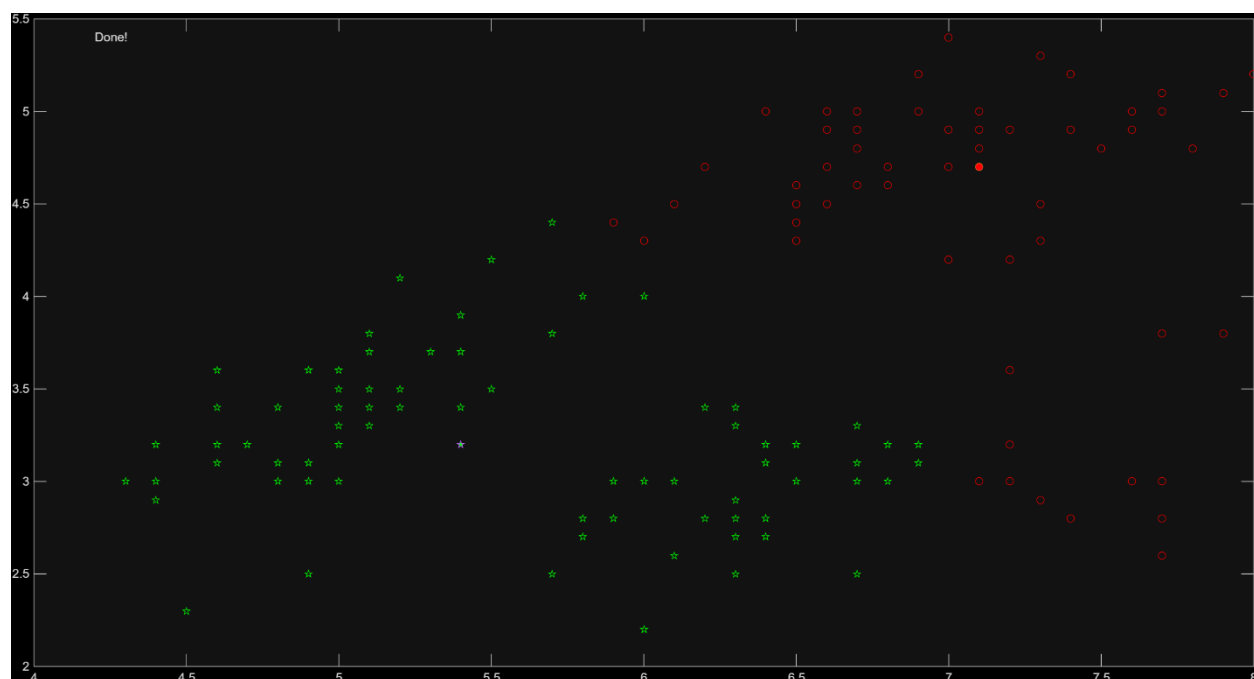
# Table of Figures

# 1 Implement K-medians



*Figure 1: Trial 1 - K-medians algorithm solution with 2 clusters*
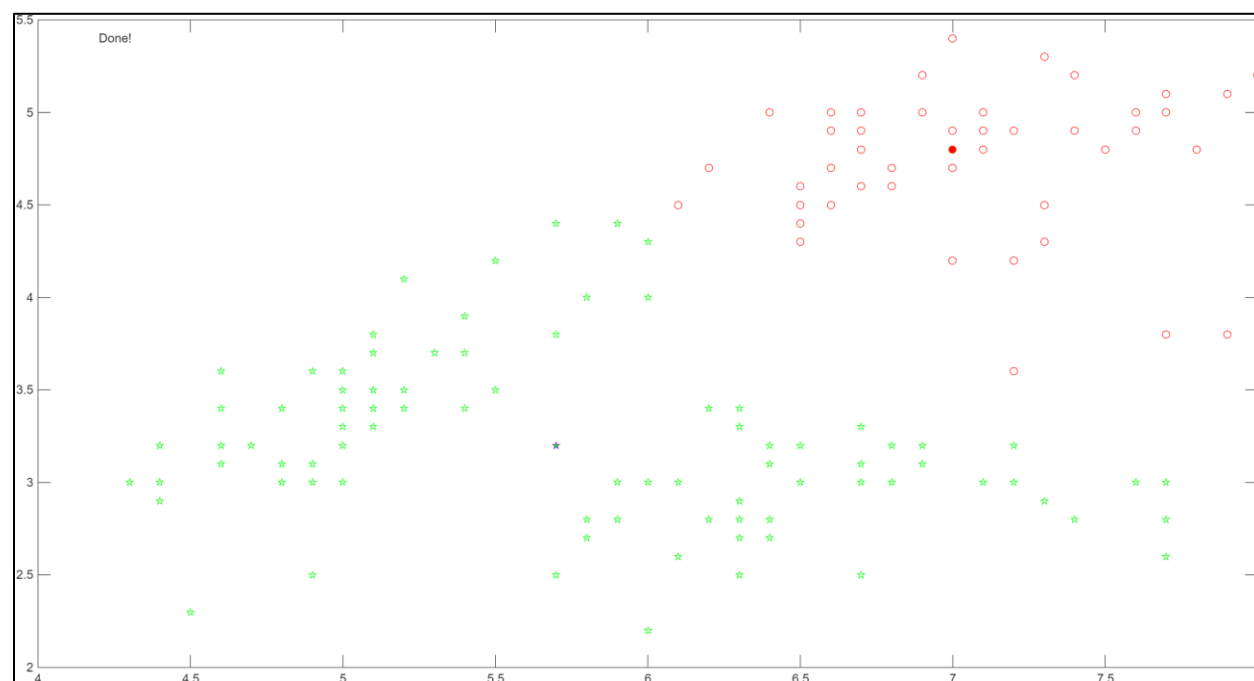


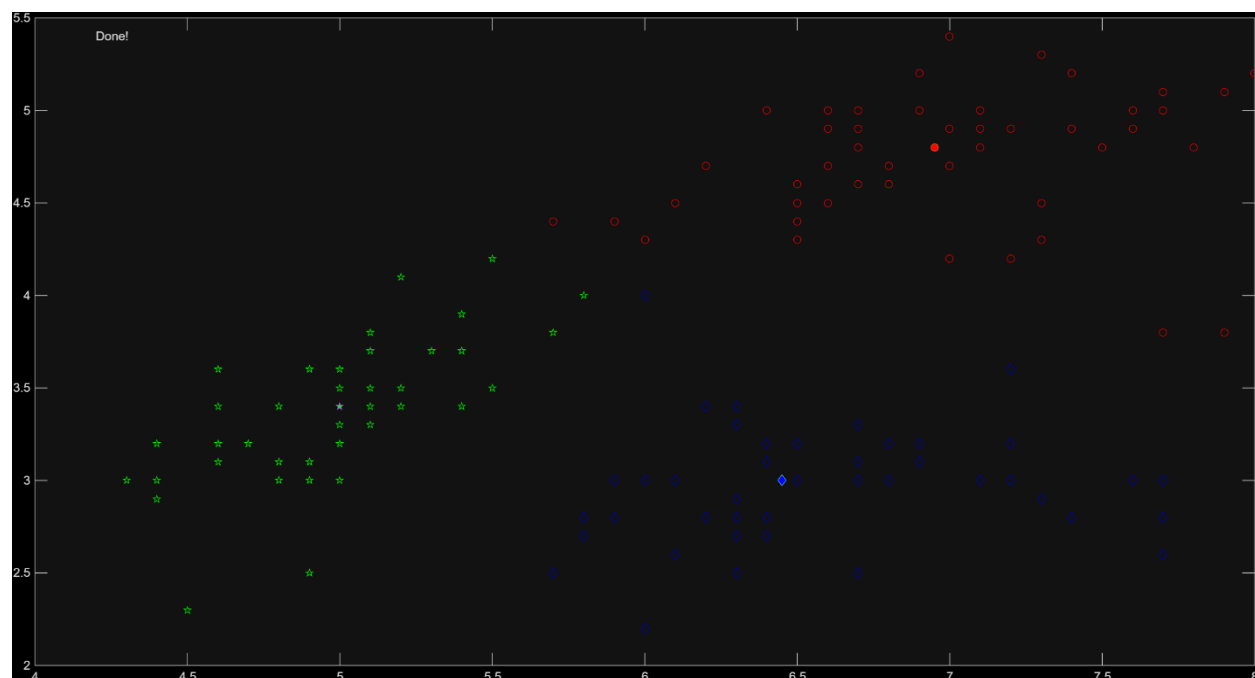*Figure 2: Trial 2 - K-medians algorithm solution with 2 clusters*

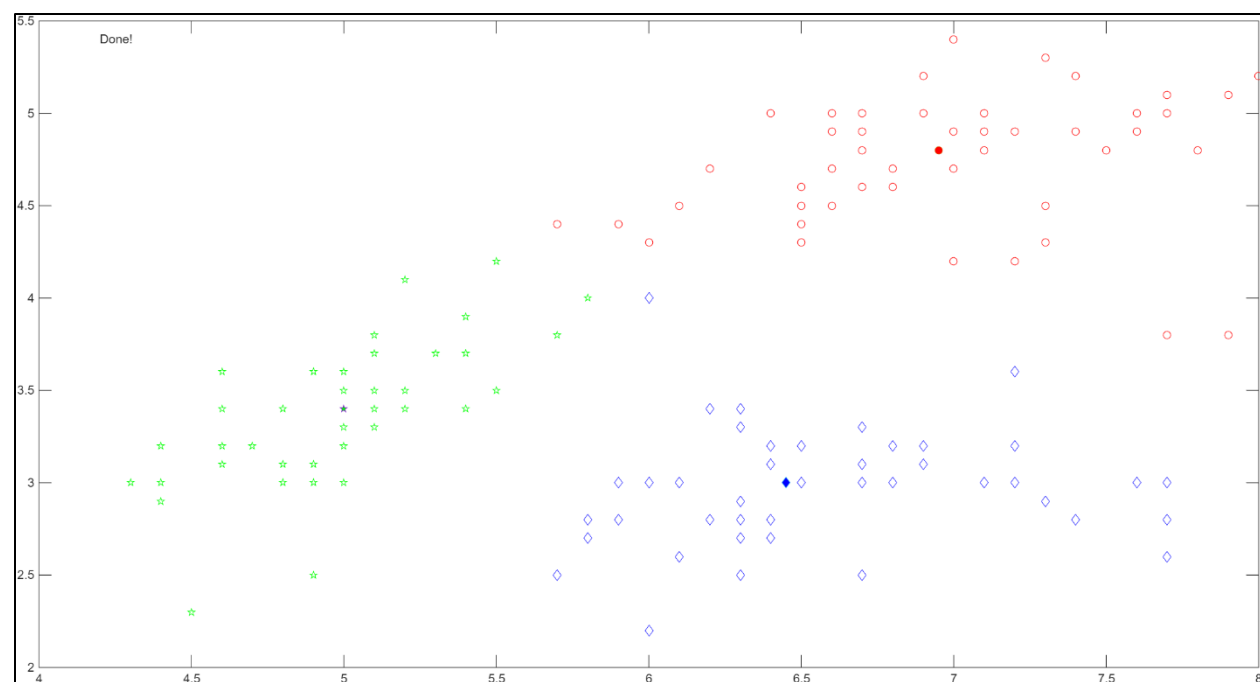*Figure 3: Trial 1 - K-medians algorithm solution with 3 clusters*



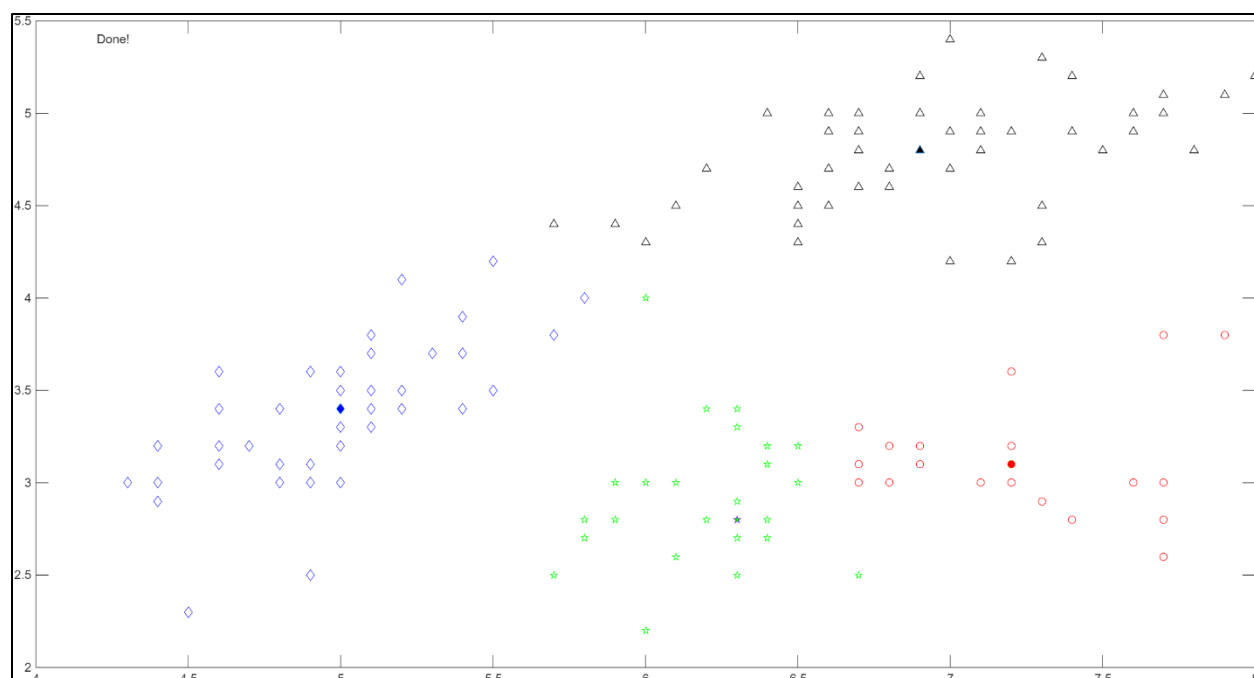*Figure 4: Trial 2 - K-medians algorithm solution with 3 clusters*

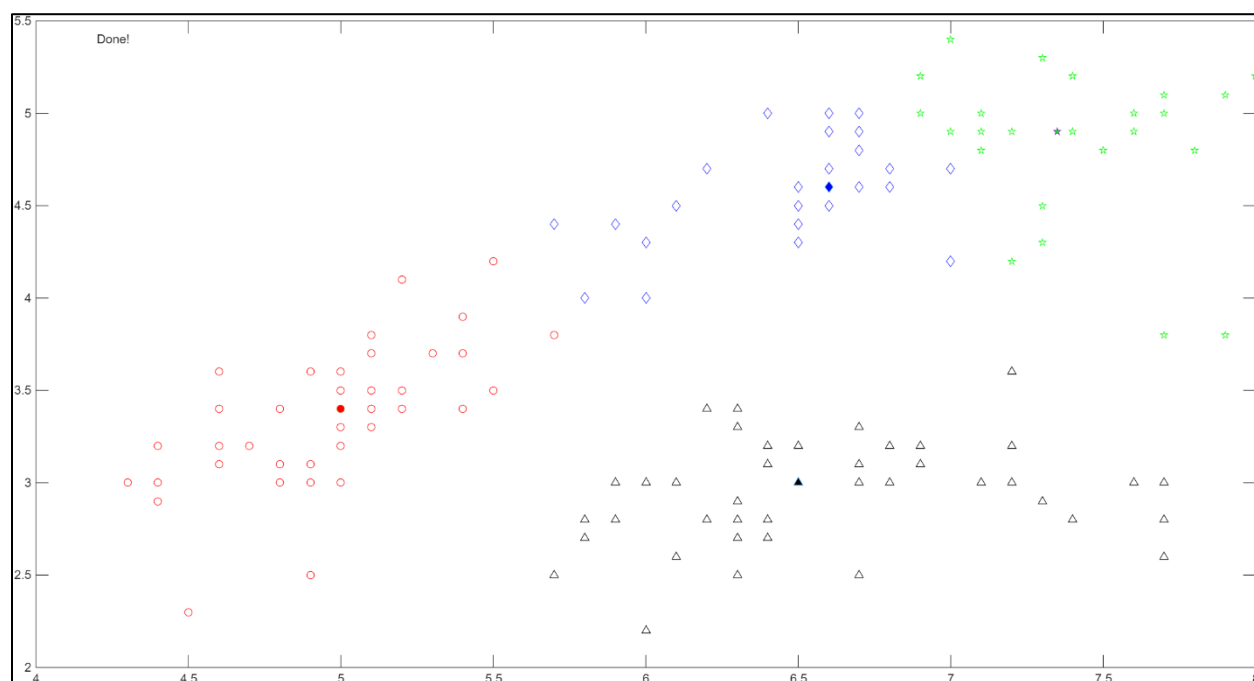*Figure 5: Trial 1 - K-medians algorithm solution with 4 clusters*



*Figure 6: Trial 2 - K-medians algorithm solution with 4 clusters*
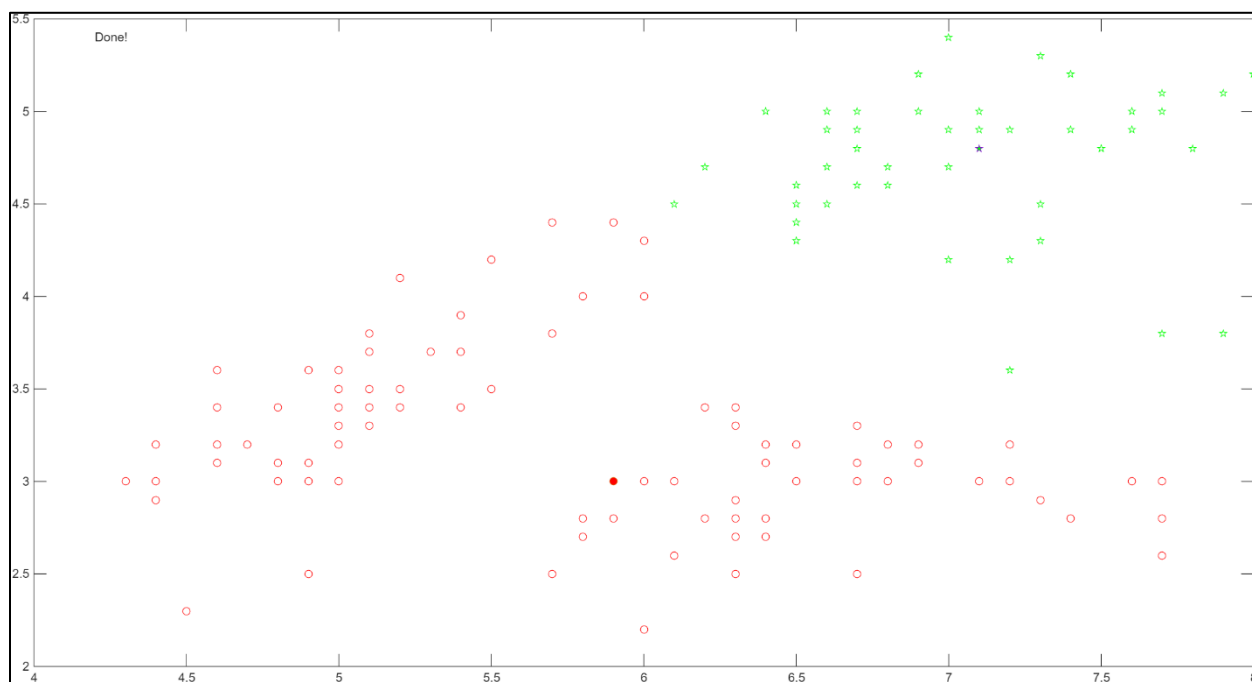
# 2 K-medoids



*Figure 7: Trial 1 - K-medoids algorithm solution with 2 clusters*
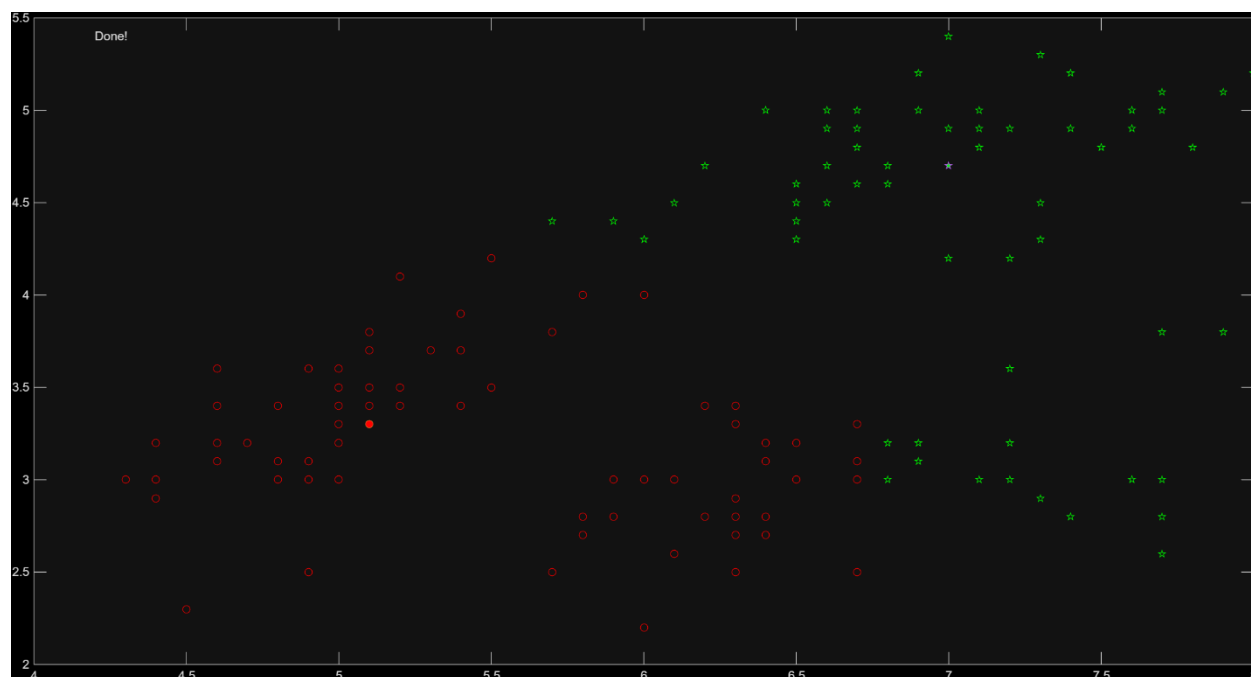


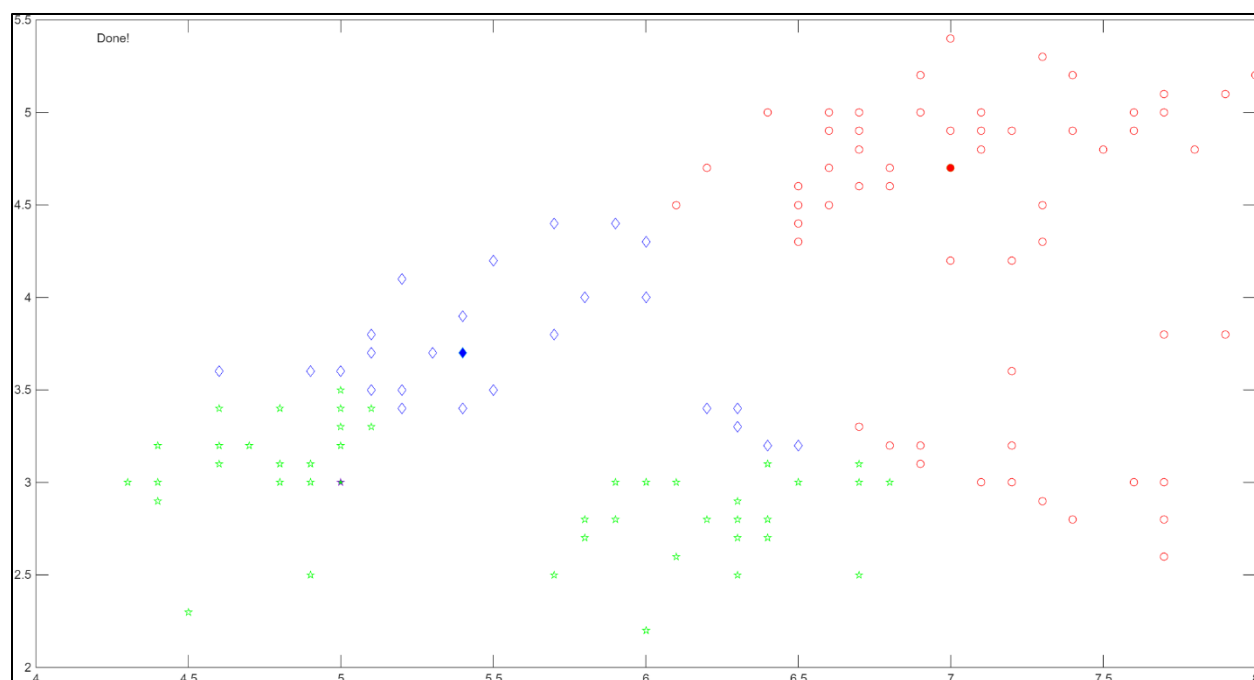*Figure 8: Trial 2 - K-medoids algorithm solution with 2 clusters*

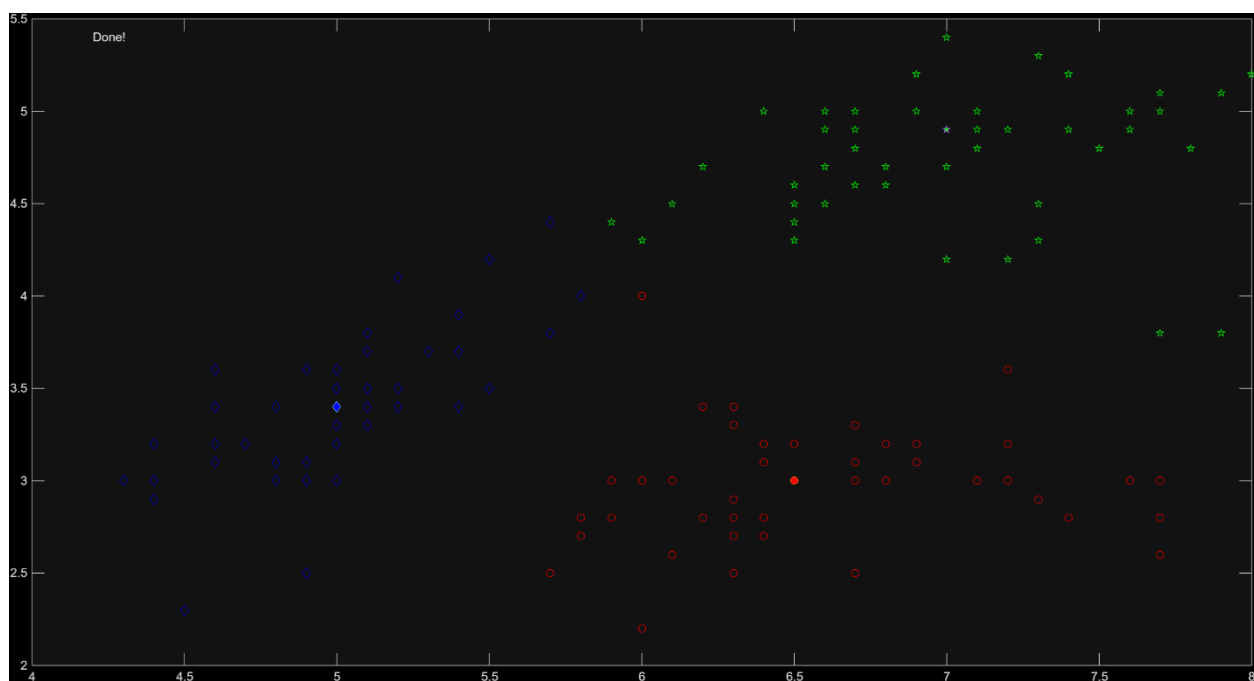*Figure 9: Trial 1 - K-medoids algorithm solution with 3 clusters*



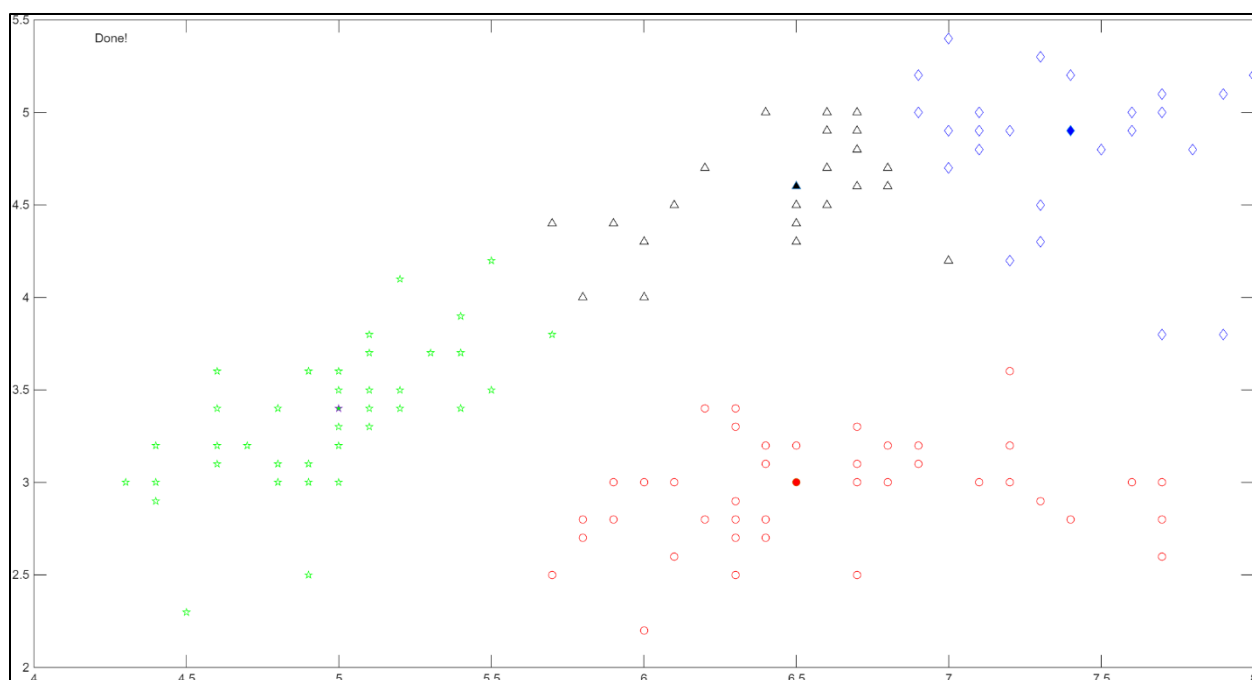*Figure 10: Trial 2 - K-medoids algorithm solution with 3 clusters*

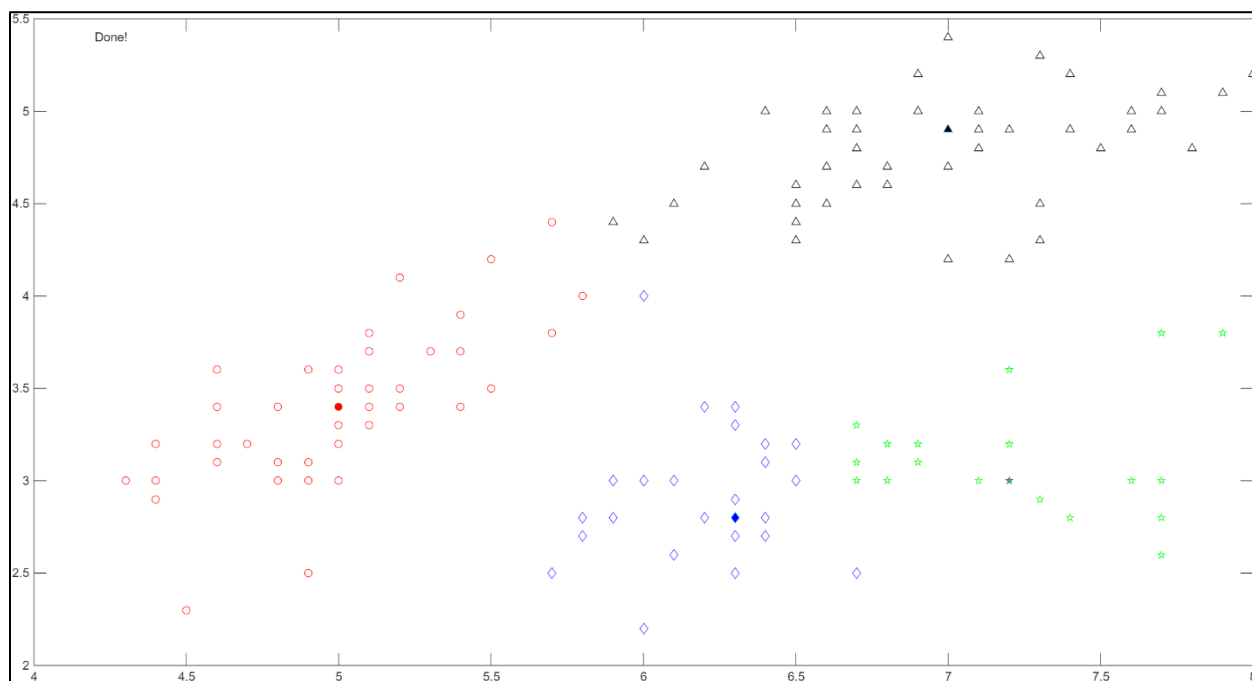*Figure 11: Trial 1 - K-medoids algorithm solution with 4 clusters*



*Figure 12: Trial 2 - K-medoids algorithm solution with 4 clusters*