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import numpy as np
from sklearn.preprocessing import MinMaxScaler
import matplotlib.pyplot as plt
from minisom import MiniSom

# Load the dataset
data = np.genfromtxt('dataset.csv', delimiter=',', skip_header=1)

# Normalize the data
scaler = MinMaxScaler()
data_normalized = scaler.fit_transform(data)

# Create and train a Self-Organizing Map
som = MiniSom(x=10, y=10, input_len=2, sigma=1.0, learning_rate=0.5)
som.random_weights_init(data_normalized)
som.train_random(data_normalized, 100) # Train for 100 iterations

# Plot the SOM and the data
plt.figure(figsize=(10, 10))
for i, x in enumerate(data_normalized):
    w = som.winner(x) # Getting the winning neuron
    plt.text(w[0], w[1], 'o', color='red', ha='center', va='center')
plt.title("Self-Organizing Map (SOM) Visualization")
plt.xlim([0, som.x])
plt.ylim([0, som.y])
plt.grid(True)
plt.show()
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