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import numpy as np
import pandas as pd

data = pd.read_csv('EX2.csv')

# Extract attributes and target
attributes = np.array(data)[:, :-1]
target = np.array(data)[:, -1]

# Candidate Elimination Algorithm
def train_CE(attributes, target):
    specific_hypothesis = attributes[0].copy()
    print("Initialization Of Specific Hypothesis:\n", specific_hypothesis)

    general_hypothesis = [["?" for _ in range(len(specific_hypothesis))] for _ in
range(len(attributes))]
    print("Initialization Of General Hypothesis:\n", general_hypothesis)

    for i, h in enumerate(attributes):
        if target[i] == "Yes":
            print("Instance {} is Positive".format(i + 1))
            for j in range(len(specific_hypothesis)):
                if h[j] != specific_hypothesis[j]:
                    specific_hypothesis[j] = '?'
                    general_hypothesis[j][j] = '?'

        if target[i] == "No":
            print("Instance {} is Negative".format(i + 1))
            for j in range(len(specific_hypothesis)):

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        if h[j] != specific_hypothesis[j]:
            general_hypothesis[j][j] = specific_hypothesis[j]
        else:
            general_hypothesis[j][j] = '?'

    print("Step {}".format(i + 1))
    print("Specific Hypothesis:", specific_hypothesis)
    print("General Hypothesis:", general_hypothesis)
    print()

    # Remove overly general hypotheses
    indices = [i for i, val in enumerate(general_hypothesis) if val == ['?'] * len(specific_hypothesis)]
    for i in indices:
        general_hypothesis.remove(['?'] * len(specific_hypothesis))

    return specific_hypothesis, general_hypothesis

# Run the learning function
s_final, g_final = train_CE(attributes, target)

# Final output
print("Final Specific Hypothesis:", s_final)
print("Final General Hypothesis:", g_final)

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