Candidate Elimination Example

Training Examples:

<Sunny, Warm, Normal, Strong, Warm, Same> → yes

<Sunny, Warm, High, Strong, Warm, Same> → yes

<Rainy, Cold, High, Strong, Warm, Change> → No

1. $S_0 = \langle \emptyset, \emptyset, \emptyset, \emptyset, \emptyset, \emptyset \rangle$

   $G_0 = \langle ?, ?, ?, ?, ?, ? \rangle$

2. Training Ex #1: (+) example, inconsistent with S

   $G_1 = \langle ?, ?, ?, ?, ?, ? \rangle$

   $S_1 = \langle S, W, N, S, W, S \rangle$

3. Ex #2: (+) example, inconsistent with S

   $G_2 = \langle ?, ?, ?, ?, ?, ? \rangle$

   $S_2 = \langle S, W, ?, S, W, S \rangle$

   ↳ generalized

4. Ex #3: (−) example, inconsistent with G

   $S_3 = \langle S, W, ?, S, W, S \rangle$

   $G_3 = \langle Sunny, ?, ?, ?, ?, ? \rangle, \langle ?, W, ?, ?, ?, ? \rangle$

   $\langle ?, ?, ?, ?, ?, S \rangle$ → Alternative maximally general hypotheys

5. Ex #4: $\langle S, W, H, S, C_m, C_m \rangle$ → (+)

   Inconsistent with S

   $S_4 = \langle S, W, ?, S, ?, ? \rangle$ → Son 2 si S_3 ile geliştiyor

   $G_4 = \langle S, ?, ?, ?, ?, ? \rangle, \langle ?, W, ?, ?, ?, ? \rangle$

   ↳ $\langle ?, ?, ?, ?, ?, S \rangle$ yi alcardık sonunda C olduğu için (inconsistent)