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ASSIGNMENT 2

Find the different expert system ,interact with it and write out the input and output

rules to solve problems and provide advice similar to a human expert. Two well-known expert systems are MYCIN and DENDRAL.

1. MYCIN

Description: MYCIN was developed in the 1970s at Stanford University for diagnosing bacterial infections and recommending antibiotics.

Input:

Symptoms: Fever, cough, and chest pain.

Patient details: Adult, no allergies to medication.

Output:

Diagnosis: Possible bacterial pneumonia.

Recommended antibiotics: Erythromycin or Tetracycline.

Additional tests: Blood cultures and sputum analysis.

2. DENDRAL

Description: DENDRAL was developed in the 1960s, also at Stanford University, to assist chemists in identifying unknown organic molecules by analyzing mass spectrometry data.

Input:

Mass spectrometry data: m/z values and intensity peaks.

Output:

Molecular formula: $C_8H_{10}N_4O_2$.

Possible structure: Caffeine.

Confidence level: High.