



SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107

Accredited by NAAC-UGC with 'A' Grade

**Approved by AICTE, Recognized by UGC & Affiliated to Anna
University, Chennai**

**Department of Artificial Intelligence and Data Science
Course Name – Introduction to Artificial Intelligence**

II Year / III Semester

Unit 5 Expert System and Application





DART (Diagnostic Assistant Reference Tool)

- An expert system for **computer fault diagnosis**
- DART is a joint project of stanford university and IBM
- It explores AI techniques to the diagnosis of computer faults
- DART system identifies specific system components (both hardware and software) likely to be responsible for an observed fault
- It offers a brief explanation of the major factors and evidence supporting these indictments.
- DART , was constructed using HMYCIN



DART

- It uses a **device independent language** for **describing devices** and device independent inference procedure for diagnosis
- The practical goal is the construction of an **automated diagnostician** capable of pinpointing the functional units responsible for observed malfunctions
- The current DART knowledge base consists of 300 EMYCIN parameters and 190 production rules and was constructed over a period of 8 months.
- During this period 5 specialists were interviewed about different aspects of the diagnostic process and the knowledge base reflects their composite expertise.
- DART has been implemented in common LISP.

XOON

- It is an Expert system that finds the **hardware and software** that are currently used in a particular company.
- It contains **all the list of software and hardware configurations to be used and implemented** accordingly.
- Its the first expert system in use.