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Devanshu Surana PC-23, 1032210755 Panel C, Batch Cl

AIES Lab Assignment 7

Aim: Implementation of Expert system.

Requirements: Swi Prolong, Turbo Prolong

Objective! To study concepts of expert system and inference engine.

Theory:

Lypert Engineer | Explanation | Explanation | Facility |

Expert Engineer | Knowledge | Requisition | Base | Row |

Expert System Architecture.

Knowledge Base: - Contains facts, rules and heuristics
Inference Engine: - Processes information from kB to
draw conclusions.

User Interface: - Facilitates interaction between the
user and system.

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Explanation Facility: - Provides reasoning behind system conclusion.

Knowledge Acquisition System: - authors and encorporates new knowledge into the system.

Main Players of Expert 1895-tem!

- 1) knowledge Engineer
 2) Domain Expert: 10 miles and miles
 3) End User

Requirements: Swi Prolong, Turbo Prolong

Output - Give decisions based on the rules provid--ed in program.

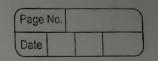
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FAQIS

- 1) Write in brief forward chaining and backward chaining of inference engine.
- -) i) Forward Chaining: start with known focts and applies rules to deduce new information until a goal is reached. His data drien and is often used when the intial conditions oure known, and the system needs to find a conclusion.

Expert System Architecture

2) Backward chaining: - Begins with a goal works backward to find data or rules that support the goal. It is the goal-driven ain and is effective when theres specific reached.



List down application of Expert System

1) Medical Diagnosis

2) Financial Planning

3) Troubleshooting

4) Suality Control.