

### List of Expert System Projects

Sl. No.	Expert System Project Name	Description
1	Expert System for Anomaly Detection (for IIITA)	Assume you're working in the networking department of IIITA. You monitor the number of requests to any proxy server per hour. There are multiple proxy servers and all of them are working concurrently. You need to detect if number of requests to any server is abnormal - either higher or lower than average. Make a proper knowledge base and write down rules for anomalies. Make an anomaly detection system for IIITA Networks.
2	Books Recommendation System (for IIITA)	Let's say you have been assigned as the librarian for IIITA Library for 1 year. Since you are from a technical background you want to introduce some cool things to the system. You noticed people are reading books but missing out similar books or they don't know there are good books around. So, you want to implement a <b>book recommendations system</b> . Assume a proper knowledge base of books and student's choice. Design an expert system that'll recommend books to the students when they come to take any book next time.
3	Expert system for Disease Prediction (for IIITA)	You have been made official Advisor to the Hospital Committee of IIITA. You noticed students are not seeking doctors even when they're ill because symptoms doesn't seem serious. So, you decided to make an advisor system that will take the symptoms of student and tell them if there is anything serious. Make a proper knowledge base of disease and respective symptoms. Write down rules for predicting disease. Make a disease prediction system.
4	Diagnosing some lung disease	Design an expert system for diagnosing some lung disease.
5	Stock Market Prediction	Expert system for predicting stock market timing using a candlestick chart
6	Expert System for deciding where to travel	Design an expert system which recommends the places to travel

7	Expert System For horticulture	<p>A Knowledge Based System (KBS) using CLIPS for Horticulture disease and pest diagnosis that automatically generates rules from a .txt file. Read more about the automation</p> <p>View the data about the symptoms from the symptoms documentation</p>
8	Medical Diagnosis Expert System	<p>Make an expert system to diagnose a patient given some symptoms.</p> <p>Design and Implement proper facts, eg:- Blood sugar level, pressure level, age, sex etc.</p> <p>Write proper Rules using the facts from the above.</p> <p>The System should be able to infer and diagnose from a given set of diseases.</p> <p>The program will be asking questions and facts will be asserted from the answers that lead to the execution of a sequence of rules that result in a specific diagnosis.</p> <p>Example:  Q1. What is your age?  A1: 20  Q2: What is your Blood Pressure?  A2: 140  Q3: Do you feel feverish? (Yes/No)  A3: Yes</p> <p>Diagnosis: Influenza</p>
9	GYM Trainer Expert System	<ul style="list-style-type: none"> <li>● Make an expert system to help a person get fit.</li> <li>● Ask the user for their age, gender, weight etc.</li> <li>● Write proper Rules using the facts from the above.</li> <li>● The System should be able to infer and produce some kind of workout plan.</li> </ul> <p>Example:  Q1. What is your age?  A1: 20  Q2: What is your weight?  A2: 80 kg  Q3: What is your height? (in cm)  A3: 180  Q4: How much time can you allocate per day? (in minutes)  A4: 90  Q5: Do you want to be slim, ripped or fit? (slim/ ripped/ fit)  A5: slim</p> <p>Work out routine in a day:  <b>30 squats</b>  <b>12 push ups</b></p>

		<p><i>20 high knees</i></p> <p><i>30 lunges</i></p>
10	Guess the character from (Game of Thrones / Harry Potter / Lord of the Rings)	<ul style="list-style-type: none"> <li>● Make an expert system to guess a character from a movie / tv series you like.</li> <li>● Ask the user for their age, gender, hair color.</li> <li>● You can ask also if the character is alive or dead, etc.</li> <li>● Check out <a href="https://en.akinator.com/">https://en.akinator.com/</a> for inspiration. (This website doesn't work inside a proxy network, use mobile data instead)</li> <li>● Make a mini Akinator</li> </ul>
11	Gadget Recommendation System	<p>Recommend gadgets based on inputs of user.</p> <p>Gadgets may include phones, tablets, smartwatches, etc.</p>
12	Automotive Expert System	Design expert system for proper diagnosis of some of the problems associated with engine, tyre, brake, headlight, steering and suspension.
13	Expert system for Course Advisor	Design expert system for advising Computer Science students which courses to enrol in.
14	Expert system for Career Advisor	Design expert system that suggests careers based on personality type and aptitude in subjects.
15	Expert system for PC Doctor	Design expert system to diagnose most common PC problems and suggest next steps to solve them
16	Food Recommendation System	Design an expert system that asks queries about the food preferences of customers and matches it with dish menu and gives suggestions accordingly.
17	Expert system for book suggestion in library	Design an Expert system that asks about the preferences and recommends books accordingly.
18	Expert system to monitor academic performance.	Design an expert system for monitoring the academic performance of students in the university.
19	Salary and Company prediction Expert system	Given the skillset of the candidate your expert system should be able to predict the salary of the candidate and the company. Assume suitable knowledge base and inference engine.
20	Diet chart prediction Expert system	Given the disorders of the patient your expert system should be able to predict the possible dieting plan for the patient. For example- Suppose someone has problem in the digestive system, so your expert

		system should predict that person should eat light items like yoghurt, banana etc. Assume suitable knowledge base and inference engine.
21	Expert system for College and branch predictor	Design an expert system that suggests JEE Aspirants with the Best College and Branch based on their JEE rank and personal preferences like location, branch, etc. Assume suitable Knowledge Base for the case?
22	Expert system for car diagnosis	Design an expert system that diagnoses a car. Assume suitable Knowledge Base for the case?
23	Expert System for restaurant recommendation	Design an expert system that recommends Restaurants to Eat to the users based on various preferences of users like cuisine, location, table availability at the time of day? Assume suitable Knowledge base?
24	Mobile phone recommendation system	Design an expert system that recommends Mobile Phone to the user?