Intelligent Systems



Rule Based System

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# Introduction

The problem domain I was assigned was the Wait for Table decision problem. This covers the everyday decision of a restaurant customer of choosing whether they should wait for a table by considering many factors such as how busy the restaurant is, waiting times for a table, whether there is another restaurant they can go to and other types of factors that can affect their resulting decision. For this problem I was allocated a decision tree to work off to help create the expert system.

The purpose of expert systems in this assignment is to encode the decision process behind the wait for table decision tree. By having rules applied to the facts provided by the customer the system will be able to advise whether a customer should wait for a table. Further to this, expert systems are designed to capture specialist knowledge and apply it systematically to individual cases, supporting decision making in a transparent way.