PadhAl: Expert Systems & 6 Jars

One Fourth Labs

Expert Systems

- 1. Expert systems are a set of rules which yield true/false values
- 2. Based on the values obtained by training examples under these rules, the output is determined appropriately
- 3. Similar to multiple if/else statement
- 4. This is the old form of Al, Popular from 1965 all the way to the 90s
 - a. 1965: Used in organic chemistry to find out structures based on rules.
 - b. 1990: Mission control for space programs.
 - i. Checks for fuel, pressure, electricals etc before giving the go ahead
 - c. 1990: Mortgage/Loan eligibility systems.
 - d. 1995: Alice, a chatbot.
 - e. 2018: Arabic Speech synthesis system, Hanane et al, May 2018.

Limitations of Expert Systems

- 1. Too many rules to write down
- 2. Certain rules are very hard to define
- 3. Some rules cannot be coded, too abstract for computers
- 4. Rules can sometimes be unknowns, ie task of predicting Ebola