

### Application of expert systems

- 1) Medical diagnosis: Expert systems are used in healthcare for diagnosing diseases, recommending treatments and interpreting medical images.
- 2) financial services: They assist in portfolio management, risk assessment, fraud detection and investment advice.
- 3) customer support: Expert systems provide automated responses to customer inquiries, troubleshooting guidance and product recommendations.
- 4) Industrial automation: They control manufacturing processes, predict equipment failure and optimize production schedule.
- 5) Education and training: Expert systems are used in e-learning platforms for personalized tutoring, course recommendation.
- 6) Natural Language processing: They support language translation, speech recognition.
- 7) Agriculture: crop management, soil analysis and irrigation scheduling.
- 8) Quality control: help in monitoring product quality, identifying defects and maintaining manufacturing standards.