



Semester : _____ Subject : _____

The Present states in AI

1. Robotics Vehicles :

→ A driverless robotic car named **STANLEY** sped thr' the rough desert at 22 mph, finishing 132-mile course first to win the 2005 DARPA Grand Challenge.

2. Speech Recognition :

→ A traveller calling United Airlines to book a flight can have the entire conversation guided by an automated speech recognition and dialog management system.

3. Autonomous planning & scheduling :

→ A hundred million miles from Earth, NASA's Remote Agent program became the 1st on board autonomous planning program to control the scheduling of operations for spacecraft.

4. Game Playing :

→ **IBM's deep Blue** became the 1st computer program to defeat the world champion in a chess match.

5. Spam Fighting :

→ Learning algorithms classify over a billion messages as spam saving the recipient from having to waste time deleting.



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6. Logistics Planning :

→ During the Persian Gulf crisis of 1991, U.S. forces deployed Dynamic Analysis and Replanning Tool, DART to do automated logistics planning & scheduling for transportation.

7. Robotics :

→ The iRobot Corporation has sold over two million Roomba Robotic Vacuum cleaners for home use.

→ The company also deploys the more rugged PackBot to Iraq and Afghanistan, where it's used to handle hazardous materials, clear explosives & identify the location of snipers.

8. Machine Translation :

→ A computer program automatically translates from Arabic to English, allowing an English speaker to see the headline.



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Ethics in AI

Enterprises face several ethical challenges in their use of AI technology.

1. Explainability:

- Organizations using AI should be able to explain the source data, resulting data, what their algorithms do and why they are doing that.
- AI needs to have a strong degree of traceability to ensure that if harm arise, they can be traced back to the cause.

2. Responsibility:

- Responsibility for the consequences of AI based decisions needs to be sorted out in a process that includes lawyers, regulators & citizens.

3. Misuse:

- AI algorithms may be used for purposes other than those for which they were created.
- Organization must introduce safety measures to reduce the adverse effects in such cases.