A.I.
Artificial Intelligence
Perspectives of A.I.

- Artificial Intelligence in “Fiction”.
- “Ethics” of Artificial Intelligence.
- Robot Rights.
- MOORE’S Law.
- Technological Singularity.
- Transhumanism.
History of A.I. Research

- The INITIATION.
  - Cybernetics
  - Neurology

- Dr. John McCarthy - Coined the term Artificial Intelligence.

- Sir James Whitehill
  - First A.I. Winter
Early 80’s and The EXPERT SYSTEMS.

The Lisp Machine
- The Second A.I. Winter.

The 21st Century.
- Data Mining.
- Medical Diagnosis.
- Help to logist
Philosophy of A.I.

- Turing's Polite Conversation.
- Gödel's incompleteness theorem
- Searle's strong AI hypothesis
- The artificial brain argument
A.I. Research

Two main fields:
- Problems.
- Approaches.
Problems In A.I.

✓ Deduction, reasoning, problem solving
✓ Knowledge representation
- Default reasoning and the qualification problem
- The breadth of commonsense knowledge
- The subsymbolic form of some commonsense knowledge
✓ Planning
✓ Learning
✓ Natural language processing
✓ Motion and manipulation
✓ Perception & Computer vision
✓ Social intelligence
✓ Creativity

✓ General intelligence (Strong A.I.), Anthropomorphic features
Approaches to A.I.

- Cybernetics and brain simulation
- Traditional symbolic AI
- Cognitive simulation
- Logical AI
- "Scruffy" symbolic AI
- Knowledge based AI
Artificial Intelligence Includes:

- **GAMES PLAYING**
- **EXPERT SYSTEMS**
- **NATURAL LANGUAGES**
- **NEURAL NETWORKS**
- **ROBOTICS**
- **FUZZY LOGIC**
Applications Of A.I.

- Security Systems
- Analyzers
- Games
- Speech Recognition
- Electronic Devices:
  - Refrigerators
  - Cameras
- Robot Pets
Evaluating A.I.

• The Turing Test.

• Four Categories of A.I.:
  - Optimal
  - Strong Superhuman
  - Super Human
  - Sub Human
Currently........................
Future of A.I.

?? Medical Vision Group.
?? Learning and Vision.
?? Sociable Machine.
?? Arti Docs.
?? VSAM(Visual Surveillance and Monitoring)
Queries Please !!!!