



Development of artificial intelligence and future

Intelligent system squad



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Introduction

ARTIFICIAL



**It does not occur naturally ,
It is created by human being**

INTELLIGENCE



**It is the ability to THINK,REASON
and UNDERSTAND instead of
doing things automatically**

Definition

- **Computers with the ability to mimic or duplicate the functions of the human brain. and it looks as awesome as it was before and beyond.**
- **Artificial Intelligence of machines and the branch of computer science with the aims to create it.**
- **“The branch of computer science that is concerned with the automation of intelligent behaviour” (Luger and Stubblefield 1993.)**

Applications of AI in banking

- **Organize operations , invest in stocks and manage properties.**
- **In August 2001, robots beat humans in a simulated financial trading competition.**
- **Some other applications include loan investigation, AMT design, safe and fast banking.**



Applications of AI in Medicine

- **A medical clinic can use AI systems to organize bed schedules, make a staff rotation and provide medical information.**
- **AI has also application in fields of cardiology (CRG), neurology (MRI),embryology(sonography) , complex operations of internal organs, etc.**
- **It also has an application in Image guided surgery and image analysis and enhancement.**



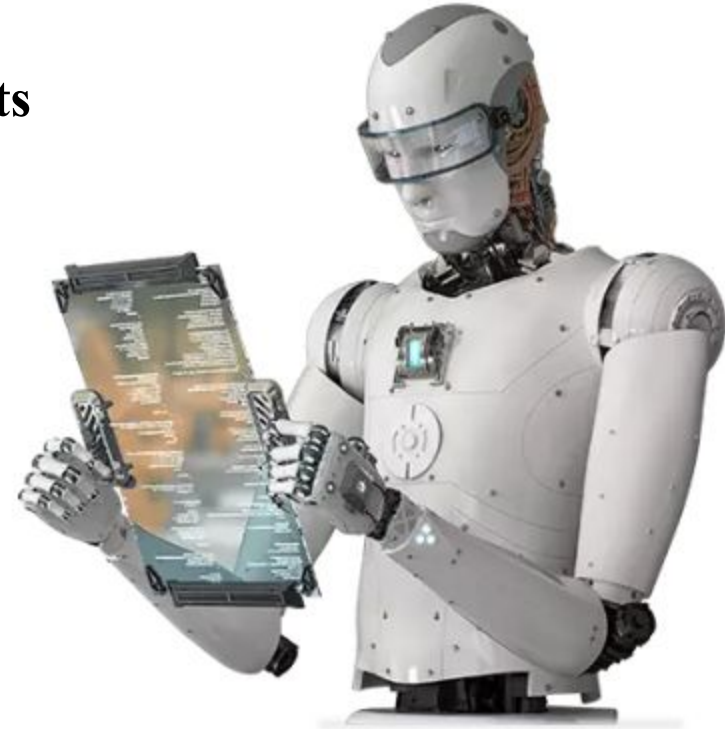
Applications of AI in Music

- **Scientists are trying to make the computer emulate the activities of the skillful musician.**
- **Composition, performance, music theory, sound processing are some of the major areas on which research in music and AI are focusing on.**
Eg : chucks, smartmusic, etc.



Some Other Applications

- **Credit granting**
- **Information management and retrieval**
- **AI and expert systems embedded in products**
- **Plant layout**
- **Help desk and assistance**
- **Employee performance evaluation**
- **Shipping**
- **Marketing**
- **Warehouse optimization**
- **In space workstation maintenance**
- **Satellite controls**
- **Network developments**
- **Nuclear management**



History of AI



1999

First Emotional Machines demonstrated at MIT AI Lab

2004

DARPA Introduces the first challenge for Autonomous Vehicles

2005

All based recommendation engines

2009

Google builds self Driving Car

2010

Narrative Science's AI demonstrates ability to write reports

2011

IBM Watson beats Jeopardy Champions

2011

Personal Assistants like Siri. Google Now and Cortana become mainstream

2005

Elon Musk and others announce a \$18 not for profit open source Initiative. OPEN AI to develop friendly AI

2016

NVIDIA announces supercomputer for Deep Learning and AI

2016

Google's Deepmind AlphaGo defeats Go's champions

Current status of AI

- **AI have taken many shapes and forms over recent years**
 - **Mobile Phones (siri/cortana)**
 - **Video Games Characters**
 - **GPS/Voice Recognition**
 - **Robotics**
- **Google has been a major plan on AI transcendence and Deep Learning.**
 - **Deep learning is a machine learning based on algorithms.**



Challenges

- **Computing Power**
- **Tolerance Power**
- **Intuitive Thinking**
- **Judging Power**



Future of AI

- **Beyond negotiation, Moore says CMU is betting several other AI areas are going to be hugely important in the near future.**
- **Self driving cars.**
- **Improved medical care and treatment.**
- **Open up doors to future explorations.**
- **Etc.**



Artificial Intelligence

➤ Advantages :

- More powerful and more useful computers.
- New and improved interfaces.
- Solving new problems.
- Better handling of information.
- Relieves information overload.
- Conversion of information into knowledge.

➤ Disadvantages :

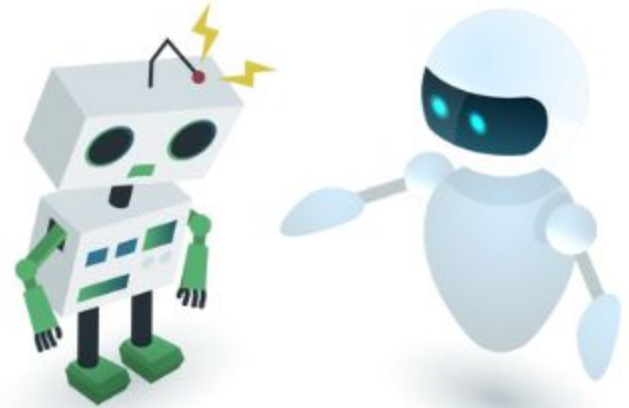
- Increased costs
- Difficulty with software development -slow and expensive.
- Few experienced programmers.
- Few practical products have reached the market as yet.

The Explosive Growth of AI

Since AI is applicable in almost all fields, they become the needs of our life. It is the reason behind the explosive growth of AI.

The growth can be divided into two parts based on the application area and what purpose they serve, they are as follows:

- ☐ **Growth in positive sense (useful to society)**
- ☐ **Growth in negative sense (harmful to society)**





Conclusion

- **Till now we have discussed in brief about Artificial Intelligence.**
- **We have discussed some of its principles, its applications, its achievements etc.**
- **The ultimate goal of institution and scientists working on AI is to solve majority of the problems or to achieve the tasks which we humans directly can't accomplish.**
- **It is for sure that development in this field of computer science will change the complete scenario of the world. Now it is the responsibility of creamy layer of engineers to develop this field.**

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