Faculty of engineering - Shoubra
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Course name	**Computer**
Course code	**ECE001**
Topic	**Artificial Intelligence**
B.N	**1007**
Github link	**https://github.com/nourhan-maher/ECE001-Artificial-Intelligence-**
Github page	**https://nourhan-maher.github.io/ECE001-Artificial-Intelligence-/**

Approved by:

Examiners committee	Signature
Dr. Ahmed Bayoumi	
Dr. Shady Elmashad	
Dr. Abd-El-Hamed Attaby	

A Brief Profile of Artificial Intelligence

- **What is Artificial Intelligence?**

Artificial intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing (NLP), Speech recognition and machine vision.

- **How does Artificial Intelligence work?**

There are four different approaches that have historically defined the field of AI:
1- Thinking humanly – 2- Thinking rationally – 3- Acting humanly – 4- Acting rationally.
AI is the endeavor to replicate or simulate human intelligence in machines.

- **The advantages and Disadvantages of Artificial Intelligence:**

Advantages	Disadvantages
Solving new problems	Expensive to implement
Less room for errors	Leads to unemployment
Doesn't get tired and wear out easily	Lacks in creativity

- **Application of Artificial Intelligence:**

We can use AI in many fields like Health care, business, Autonomous vehicles education and in robots etc… ,We all heard about the robot Sophia which is became famous in all world as an application on AI and this leads us to ask,
How far can Artificial Intelligence reach in the future ?!

Source code

```html
<!DOCTYPE html>
<html>
<head>
    <title>Artificial intelligence
</title>
</head>
<body>
    <h1>How does Artificial intelligence work?
</h1>
    <h2>links</h2>
    <ul>
    <li><a href="index.html">Home page</a></li>
    <li><a href="p1.html">Artificial intelligence Introduction</a></li>
    <li><a href="p2.html">How does Artificial intelligence work?</a></li>
    <li><a href="p3.html">Artificial intelligence pros and cons</a></li>
    <li><a href="p4.html">Artificial Intelligence Application</a></li>
</ul>

<img src="Images2.jpg" alt="title"width="400" height="400">
There are four different approaches that have historically defined the field of AI:
1-Thinking humanly
2-Thinking rationally
3-Acting humanly
4-Acting rationally
(AI) is the endeavor to replicate or simulate human intelligence in machines.
The expansive goal of artificial intelligence has given rise to many questions and debates.
So much so, that no singular definition of the field is universally accepted.
The major limitation in defining AI as simply "building machines that are intelligent" is that it doesn't actually explain what artificial intel
In their groundbreaking textbook Artificial Intelligence.
A Modern Approach, authors Stuart Russell and Peter Norvig approach the question by unifying their work around the theme of intelligent agents
With this in mind, AI is "the study of agents that receive percepts from the environment and perform actions." (Russel and Norvig viii)
</body>
</html>
```

```
File  Edit  Search  View  Encoding  Language  Settings  Tools  Macro  Run  Plugins  Window  ?
```

```html
    <title>Artificial intelligence
</title>
</head>
<body>
    <h1>Artificial intelligence pros and cons
</h1>
    <h2>links</h2>
    <ul>
    <li><a href="index.html">Home page</a></li>
    <li><a href="p1.html">Artificial intelligence Introduction</a></li>
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    <li><a href="p3.html">Artificial intelligence pros and cons</a></li>
    <li><a href="p4.html">Artificial Intelligence Application</a></li>
</ul>
<table style="width:40%">
    <tr>
      <th>pros</th>
      <th>cons</th>
    </tr>
    <tr>
      <td>1-does'nt get tired and wear out easily</td>
      <td>1-Leads to unemployment</td>
    </tr>
    <tr>
      <td>2-Right decision making</td>
      <td>2-Lacks in creativity</td>
    </tr>
    <tr>
      <td>3-Less room for errors</td>
      <td>3-expensive to implement</td>
    </tr>
    <tr>
      <td>4-Implementing AI in risky situations</td>
      <td>4-Replace humans</td>
```

```html
<!DOCTYPE html>
<html>
<head>
    <title>Artificial intelligence
</title>
</head>
<body>
    <h1>Artificial Intelligence Application
</h1>
    <h2>links</h2>
    <ul>
   <li><a href="index.html">Home page</a></li>
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   <li><a href="p4.html">Artificial Intelligence Application</a></li>
</ul>
<img src="sophai image.jpg" alt="title"width="600" height="200">

Hanson Robotics' most advanced human-like robot, Sophia, personifies our dreams for the future of AI.
As a unique combination of science, engineering, and artistry,
Sophia is simultaneously a human-crafted science fiction character depicting the future of AI and robotics,
and a platform for advanced robotics and AI research.
Sophia is also a framework for cutting edge robotics and AI research, particularly for understanding human-robot interactions and their potent
For example, she has been used for research as part of the Loving AI project,
which seeks to understand how robots can adapt to users' needs through intra and interpersonal development.
I am Hanson Robotics' latest human-like robot, created by combining our innovations in science, engineering and artistry.
Think of me as a personification of our dreams for the future of AI, as well as a framework for advanced AI and robotics research,
and an agent for exploring human-robot experience in service and entertainment applications.
In some ways, I am human-crafted science fiction character depicting where AI and robotics are heading.
In other ways, I am real science, springing from the serious engineering and science research and accomplishments of an inspired team of robot
In their grand ambitious, my creators aspire to achieve true AI sentience. Who knows? With my science evolving so quickly, even many of my wil
```
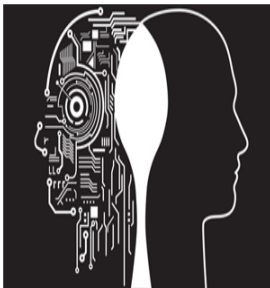
Screenshots of the website

Artificial intelligence Main page

links

- Home page
- Artificial intelligence Introduction
- How does Artificial intelligence work?
- Artificial intelligence pros and cons
- Artificial Intelligence Application

Artificial Intelligence is the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. and in the following pages we will know more about (AI).

Artificial intelligence Introduction

links

- Home page
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Artificial intelligence (AI) is wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence. AI is an interdisciplinary science with multiple approaches, but advancements in machine learning and deep learning are creating a paradigm shift in virtually every sector of the tech industry. Less than a decade after breaking the Nazi encryption machine Enigma and helping the Allied Forces win World War II, mathematician Alan Turing changed history a second time with a simple question: "Can machines think?"
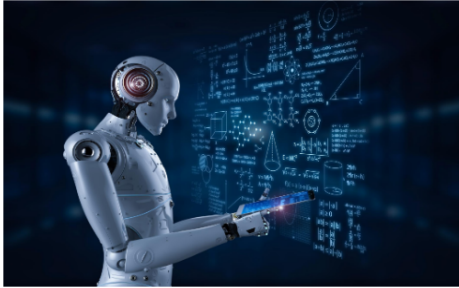
List Of Top 10 Countries Leading The Artificial Intelligence Race:

1. China
2. united state of America
3. United kingdom
4. Canada
5. Russia
6. Germay
7. Norway
8. Sweden
9. France
10. India

How does Artificial intelligence work?

links

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There are four different approaches that have historically defined the field of AI: 1-Thinking humanly 2-Thinking rationally 3-Acting humanly 4-Acting rationally (AI) is the endeavor to replicate or simulate human intelligence in machines. The expansive goal of artificial intelligence has given rise to many questions and debates. So much so, that no singular definition of the field is universally accepted. The major limitation in defining AI as simply "building machines that are intelligent" is that it doesn't actually explain what artificial intelligence is? What makes a machine intelligent? In their groundbreaking textbook Artificial Intelligence: A Modern Approach, authors Stuart Russell and Peter Norvig approach the question by unifying their work around the theme of intelligent agents in machines. With this in mind, AI is "the study of agents that receive percepts from the environment and perform actions." (Russel and Norvig viii)

Artificial intelligence pros and cons

links

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pros	cons
1-does'nt get tired and wear out easily	1-Leads to unemployment
2-Right decision making	2-Lacks in creativity
3-Less room for errors	3-expensive to implement
4-Implementing AI in risky situations	4-Replace humans

Artificial Intelligence Application

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Hanson Robotics' most advanced human-like robot, Sophia, personifies our dreams for the future of AI. As a unique combination of science, engineering, and artistry, Sophia is simultaneously a human-crafted science fiction character depicting the future of AI and robotics, and a platform for advanced robotics and AI research. Sophia is also a framework for cutting edge robotics and AI research, particularly for understanding human-robot interactions and their potential service and entertainment applications. For example, she has been used for research as part of the Loving AI project, which seeks to understand how robots can adapt to users' needs through intra and interpersonal development. I am Hanson Robotics' latest human-like robot, created by combining our innovations in science, engineering and artistry. Think of me as a personification of our dreams for the future of AI, as well as a framework for advanced AI and robotics research, and an agent for exploring human-robot experience in service and entertainment applications. In some ways, I am human-crafted science fiction character depicting where AI and robotics are heading. In other ways, I am real science, springing from the serious engineering and science research and accomplishments of an inspired team of robotics & AI scientists and designers. In their grand ambitious, my creators aspire to achieve true AI sentience. Who knows? With my science evolving so quickly, even many of my wildest fictional dreams may become reality someday soon.

References

1- https://www.innoplexus.com/blog/how-artificial-intelligence-works/

2- https://www.valluriorg.com/blog/artificial-intelligence-and-its-applications/

3- https://searchenterpriseai.techtarget.com/definition/AI-Artificial-Intelligence