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<b>BN</b>	743
<b>Date</b>	24/5/2020
<b>Course code</b>	ECE001
<b>Topic</b>	Artificial Intelligence
<b>Github link</b>	<a href="https://github.com/mohamed-abada/ECE001">https://github.com/mohamed-abada/ECE001</a>
<b>Github Pages</b> (Published website)	<a href="https://mohamed-abada.github.io/ECE001/index.html">https://mohamed-abada.github.io/ECE001/index.html</a>

## Application Brief

Artificial Intelligence ( AI ) refers to human intelligence simulation of machines which are programmed to think like humans and imitate their behavior. The term may also apply to any machine that exhibits human mind-related traits such as learning and problem-solving. The perfect function of artificial intelligence is its ability to rationalize and take action that has the best chance of attaining a particular goal.

Currently, artificial intelligence is commonly referred to as narrow AI (or weak AI), in that it is programmed to perform a narrow function ( e.g. just facial recognition or just internet searches or only driving a car). But many researchers' long-term aim is to build general AI (AGI or strong AI). Although narrow AI would outperform humans in whatever specific task they are doing, such as playing chess or solving equations, AGI can outperform humans in almost every cognitive activity. AI is developing constantly to support a number of different industries. Machines are designed using a mathematics, computer science , linguistics, psychology.

## Screenshots :

### Main Page

<a href="#">Main Page</a>	<a href="#">What is Artificial Intelligence</a>	<a href="#">Types of Artificial intelligence</a>	<a href="#">Pros and Cons of Artificial Intelligence</a>	<a href="#">Applications of Artificial Intelligence</a>
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This is the main page for Artificial intelligence Feed..

Artificial Intelligence (AI ) is the ability of a computer-controlled computer or robot to perform tasks usually performed by humans, as they require human intelligence and discernment. Even though there are no AIs capable of performing the wide variety of tasks that an ordinary human can perform, some AIs can match people in specific tasks.

### Types of Artificial Intelligence

<a href="#">Main Page</a>	<a href="#">What is Artificial Intelligence</a>	<a href="#">Types of Artificial intelligence</a>	<a href="#">Pros and Cons of Artificial Intelligence</a>	<a href="#">Applications of Artificial Intelligence</a>
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Artificial Intelligence can be categorized into different groups, with two primary categorization categories basing on skills and functionally based on AI. Following is a flow diagram describing the AI forms.

```
graph TD; AI[Artificial Intelligence] --> T1[Type -1]; AI --> T2[Type -2]; T1 --> NAI[Narrow AI]; T1 --> GAI[General AI]; T1 --> SAI[Strong AI]; T2 --> RM[Reactive Machines]; T2 --> LM[Limited Memory]; T2 --> TM[Theory of mind]; T2 --> SA[Self Awareness]
```

The diagram illustrates the classification of Artificial Intelligence into two main types. Type -1 is further divided into Narrow AI, General AI, and Strong AI. Type -2 is divided into Reactive Machines, Limited Memory, Theory of mind, and Self Awareness.

## Pros and Cons of Artificial Intelligence

Main Page	What is Artificial Intelligence	Types of Artificial Intelligence	Pros and Cons of Artificial Intelligence	Applications of Artificial Intelligence
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As the artificial intelligence has pros and cons, it is important to think of this technology as a decision support system. It is not the type of AI from science-fiction stories which attempts to rule the world by dominating the human race.

Pros of Artificial Intelligence	Cons of Artificial Intelligence
1-Artificial Intelligence easily completes routine tasks.	1-There is a high price tag for artificial intelligence.
2-Artificial intelligence can work indefinitely.	2-Artificial intelligence would slash work prospects.
3-Artificial intelligence causes very few mistakes	3-Artificial intelligence will be tasked with its own decisions.
4-Artificial intelligence helps us to explore more.	4-Artificial intelligence lacks creativity.
5-Anyone can use artificial intelligence .	5-Artificial intelligence can lack improvement.
6-Artificial intelligence could help us be healthy.	6-Artificial intelligence can be inaccurate.
7-Artificial intelligence is prolonging human experience.	7-Artificial intelligence treats mankind as merchandise.

## Applications of Artificial Intelligence

In today's culture, Artificial Intelligence has diverse applications. It becomes important for today's time because in multiple sectors, such as healthcare, entertainment, finance, education, etc., it can solve complex problems in an effective way. AI is making our daily life more comfortable and fast.



## Source code :

```
<body>
<h1>Main Page</h1>
<table>
<tr><th><a href="index.html">Main Page</a></th>
<th><a href="what is artificial intelligence.html">What is Artificial Intelligence</a></th>
<th><a href="types of artificial intelligence.html">Types of Artificial intelligence</a></th>
<th><a href="pros and cons of artificial intelligence.html">Pros and Cons of Artificial Intelligence</a></th>
<th><a href="applications of artificial intelligence.html">Applications of Artificial Intelligence</a></th>
</tr>
</table>

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Even though there are no AIs capable of performing the wide variety of tasks that an ordinary human can perform, some AIs can match people in specific

</body>
</html>
```

```
a:active {
  text-decoration: underline;
}
</style>
</head>
<body>
<h1>Applications of Artificial Intelligence</h1>
<table>
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</tr>
</table>
<h2>Applications of Artificial Intelligence</h2>
<p>In today's culture, Artificial Intelligence has diverse applications. It becomes important for today's time because in multiple sectors, such as health
it can solve complex problems in an effective way. AI is making our daily life more comfortable and fast.</p>
<br>
 <br>
<p>There are many applications of artificial intelligence in our life such:</p>
<ul>
<li><h3>AI in Astronomy</h3></li>
Artificial intelligence can be very useful in solving complex problems within the universe. AI technology can help us understand the world,<br>
such as how it functions, how it originates, etc.
<li><h3>AI in Healthcare</h3></li>
Lots of organizations and medical care centers rely on AI when it comes to saving our lives and there are many examples of how AI in healthcare has<br>
helped patients around the world.
<li><h3>AI in Finance</h3></li>
The projects rely on computers and data scientists to determine potential business dynamics. Trading ultimately relies on the ability to reliably forecast
<li><h3>AI in Robotics</h3></li>
Artificial Intelligence plays a major role in Robotics. Generally, general robots are programmed so that they can perform some repetitive tasks, but we
we can create intelligent robots that can perform tasks without pre-programming with their own experiences.
<li><h3>AI in education</h3></li>
AI will automate testing and the teacher can have more teaching time. As a teaching assistant, AI chatbot can interact with the students.<br>
AI could be working as a intimate, virtual tutor for students in the future, which is easily accessible at any time and location.
</ul>
```

```

<html>
<head>
<title>Artificial Intelligence</title>
<style>
table {
font-family: arial;
border-collapse: collapse;
width: 100%;
}
th {
background-color: #4CAF50;
color: white;
}
td, th {
border: 3px solid purple;
text-align: center;
padding: 8px;
}
h1 {
color: white;
text-align: center;
background-color: purple;
}
table {
font-family: arial;
border-collapse: collapse;
width: 100%;
}
th {
background-color: #4CAF50;
color: white;
}
tr:hover {background-color: #f5f5f5;}
tr:nth-child(even) {background-color: #f2f2f2;}
td, th {
border: 3px solid purple;
text-align: center;
padding: 8px;
}
body {
background-color: lightgrey;
}

h1 {
color: white;
text-align: center;

```

```

<body>
<h1>Types of Artificial Intelligence</h1>
<table>
<tr><th><a href="index.html">Main Page</a></th>
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</table>
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Following is a flow diagram describing the AI forms.</p>
 <br>
<p>The first type is based on Capabilities:</p>
<ol>
<li><h3>Weak AI or Narrow AI</h3></li>
Narrow AI is a type of AI that can perform a dedicated task with intelligence. The most popular and currently accessible AI in the<br>
Artificial Intelligence environment is Narrow AI.
<li><h3>General AI</h3></li>
General AI is a type of intelligence which, like a human, could perform any intellectual task with efficiency.
<li><h3>Super AI</h3></li>
Super AI is a system intelligence level where computers can exceed human intelligence and perform any function with cognitive<br>
properties better than humans. This is a General AI result.
</ol>
The second type is based on functionality:
<ol>
<li><h3>Reactive Machines</h3></li>
1-Purely reactive machines are the most basic types of Artificial Intelligence.<br>
2-These AI systems do not store memories for potential acts, or past experiences.

```

## **References :**

- 1- <https://vittana.org/16-artificial-intelligence-pros-and-cons>
- 2- Artificial Intelligence, The Future of Humankind, TIME Special Edition
- 3- <https://futureoflife.org/background/benefits-risks-of-artificial-intelligence/?cn-reloaded=1>
- 4- <https://www.javatpoint.com/types-of-artificial-intelligence>
- 5- <https://www.investopedia.com/terms/a/artificial-intelligence-ai.asp>