Assignment1

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1.Artificial intelligence refers to the development of computer systems performing tasks that requires human intelligence

* AI helps in identifying patterns and making decisions based on the collected information.

APPLICATIONS

* Healthcare
* Financing
* Recommendation
* Manufacturing

2.

|  |  |
| --- | --- |
| Supervised learning | Unsupervised learning |
| It uses labeled data | It uses unlabeled data |
| No.of classes is known | No.of classes is unknown |
| accurate and reliable results | Moderate and reliable results |
| training data is used | Training data is not used |

# 3.python

* Python is a programming language in which we give a set of instructions to perform a specific task
* Python is used various applications like web development, data science…..
* Features of python
* Interpreter language
* High level language
* Object oriented
* Open source
* Platform independent
* Gui
* Easy to understand

# 4.**advantages of python in ml**

* Python ai libraries
* Easy implementation
* Os platform independence
* Python data tools
* Readability
* Large developer community

**5.indentation in python**

Indentation in python means four white spaces or tab space which is used to maintain the structure of the code

## 6.variable

A variable in python is a container for a value to be stored

Ex: \_a=1, b=2(valid)

1= ”acd” ,int=2(invalid)

## 7.

|  |  |
| --- | --- |
| keyword | Identifier |
| Keywords are predefined words that have special meaning | Identifiers are the values that define different programming items |
| A keyword should be in lower case | An identifier can be lower case or upper case |

# 8.data types in python

* Numeric
* Int
* Float
* Complex
* Sequence: String , list, tuple
* Dictionary: dictionary
* Set: set
* Boolean

## 9.if statement

If(condition)

Print(statement)

## 10.elif statement

The purpose of elif statement in python is to include multiple conditional expressions in between or after the if statement in a code

Ex:

If(a>b&&a>c)

Print(“a is greater”)

elif(b>a&&b>c)

print(“b is stronger”)

else(“c is stromger:”)