Signature

Date :
Page No. :

9 April 26
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Application of Artificial Intelligence

1. Price comparison - Website — Price runner, Shopzilla
2. Virtual Assistance - Alexa, Siri
3. Recommendation system - Netflix, Youtube
4. Weather forcasting - prediction — Temperature of weather one variations
5. Fraud Detection - Insurance, Finance, Healthcare.
6. Autonomous vehicles - Self Driving car
7. Smart Home Devices - CCTV, Tab, bulb
8. Health care Diggnostics - IBM Watson Health
9. Language Translation - Google Translate
10. Customer Service Chatbox - Zendesk
11. Educational Tools - Duolingo

Date :
Page No. :

Que. Define AI

Ans- AI refers to machines simulation human-like intelligence: learning, decision-making, problem-solving.

AI Project cycle -

1. Problem scoping
2. Data Acquisition
3. Data Exploration
4. Data Preparation
5. Modelling
6. Evaluation
7. Deployment

AI Project cycle - The AI Project cycle is a structural six-stage process used to design, build, test and deploy AI solutions.

Date :
Page No. :

Arithmetic Operations

1. + Addition = 23 + 17 = 40
2. - Subtraction = 100 - 45 = 55
3. * Multiplication = 9 * 8 = 72
4. / Division = 81 / 9 = 9
5. ** Exponent = 5 ** 3 = 125
6. % Modulus = 29 % 6 = 5 (Remainder)
7. // Floor division = 45 // 4 = 11 = (Quotient)

Date :
Page No. :

Relation Operations

1.	Equal	10 = 10	True
2.	Not equal	151 - 20	True
3.	Greater than	25 > 20	True
4.	Less than	10 < 15	True

Logical operations

AND	(5>3)	and (8>6)	True
OR	(5>3)	or (8>6)	True
NOT	not (5>3)		False

Date :
Page No. :

(i) Addition (+)

Explanation - The + operator adds two numbers.

```
a = 10
b = 12
c = a+b

Print ("The addition =", c)
```

Output:

The addition = 22

2. Subtraction (-)

Explanation - The - operator subtracts one number from another.

```
a = 25
b = 5
c = a - b

Print ("The subtraction = ", c)
```

Output - The subtraction = 20

Date :
Page No. :

3. Multiplication (*)

Explanation = The * operator multiplies two numbers.

```
X = 5
y = 10
z = X * y
```

Print ("The product =", z)

Output = The product = 50

4. Division (/)

Explanation = The / operator divides one number by another.

```
x = 35
y = 5
z = x/y
```

Print ("The division =", z)

Output = The division = 7.0

Date :
Page No. :

5. Exponent (* *)

Explanation: The * * operator raises a number to a power.

```
a = 25
b = 2
c = a**b

Print ("The exponent =", c)
```

Output: The exponent = 625

6. Modulus (%)

Explanation: The % operator gives the remainder after division

```
a = 40
b = 3
c = a%b
Print ("The modulus =", c)
```

Output: The modulus = 1

Date :
Page No. :

7. Floor Division (//)

Explanation= Floor division returns the quotient without the decimal part.

```
a= 38
b= 3
c= a//b
```

Print ("The floor division=", c)

Output- The floor division = 12

1. Equal To (==)

Explanation - The == operator checks whether two values are equal. It returns True or False.

```
a= 40
b= 20
c= a==b
```

Print (c)

Output - False

Date :
Page No. :

2. Not Equal (!=)

a = 40
b = 20
c = (a != b)

Print (c)

Output: True

Explanation: Since 40 is not equal to 20, the result is True

3. Greater than (>)

a = 40
b = 20
c = (a > b)

Print (c)

Output = True

Explanation = Since 40 is greater than 20, the result is True.

Date :
Page No. :

4. Less Than (<)

Explanation = The < operator checks whether the first number is smaller than the second

a = 20
b = 40
c = a < b

Output = True

Date :
Page No. :

History of AI

~~From MC~~
Warren MC Culloch and Walter Pitts (1943
↓
Turning Test in (1950)
↓
Dartmouth Conference in (1956)
↓
ELIZA in (1966)
↓
Expert Systems in (1980s)
↓
AI Winter
↓
GPT-3 (2020) and Chat GPT (2022)

1. Warren MC Culloch and Walter Pitts Artificial Neurons (1943)

2. Alan Turing - "Computing Machinery and Intelligence" (1950)

3. Dartmouth John McCarthy - Father of Artificial Intelligence (1956)

Date :
Page No. :

4. Garry Kasparov → IBM's Deep Blue (1997)

Very Good

Blue
4/7/26

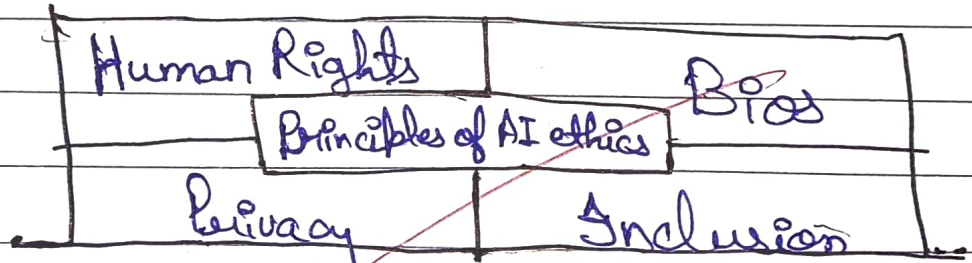
AI Ethics

Date: 2 July 26
Page No.:

AI Principles:

- Humans centered
- Beneficial
- Fairness
- Transparently
- Privacy
- Accountability
- Safety

★ Principles of AI Ethics affecting AI solution quality.



4/7/26