JAMGALA DIVYA

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Objective —

Seeking an entry level position to begin my career in a high-level professional environment.

Educational Qualification ———

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2023	B. Tech ECE	Jntua College of Engineering, Kalikiri	8.4
2019	Class XII	Narayana Junior College, Nellore	96.1
2017	Class X	Himalaya E.M High School	10.00

Academic Achievements •

- Awarded Pragati Scholarship based on Intermediate Merit.
- Secured second rank in essay writing competition in tenth standard.

Internship Experience

Embedded Systems:

August 2022-September 2022

Undergone Virtual Internship training at Adventure Technology Solutions on topic Embedded Systems.

Other Projects ___

Laser Light Security Alarm:

January 2022

Laser based security system is a type of security and alarm system that uses laser light and a light sensor. A security system protects our home, office, lockers, banks etc from intrusion and unauthorised access.

UV Ray Intensity Meter:

July 2022

In this project, UV sensor is used for measuring the intensity of uv rays. This will be helpful for maintenance of various equipment.

Diabetes Prediction

May 2023

Built a predictive model using machine learning algorithms to predict the likelihood of a person having diabetes based on various health parameters. Used Python and scikit-learn library for data preprocessing, model training, and evaluation.

Skills

- Programming Languages C, Python, Java
- Frontend Html, Css
- Database Sql

Languages Known -

- Telugu (Mother Tongue)
- English
- Hindi

Strengths

- Adaptability
- Fast Learning
- Proactiveness

Certifications

- Certifications from Hindi Prachar Sabha on Prathamic, Madhyama, Rashtra Basha and Praveshika.
- NEO Certification on "Internet of Things." (Duration:4 Weeks)
- Microsoft Technology Associate -Programming using Python.

Extracurricular Activities •

- Participated in Throw ball competition in College Fest held at Jntua College of Engineering Kalikri.
- Worked as volunteer in YEF Foundation.
- Participated in preparing decorations in technical fest in college.

BITWISE OPERATORS

• Bitwise operators are used to performing the manipulation of individual bits of a number. They can be used with any integral type (char, short, int, etc.).

Types of Bitwise operators:

1. **<u>Bitwise OR:</u>** This operator is a binary operator, denoted by '|'. It returns bit by bit OR of input values, i.e., if either of the bits is 1, it gives 1, else it shows 0.

2. **<u>Bitwise AND:</u>** The bitwise AND & operator returns 1 if and only if both the operands are 1. Otherwise, it returns 0.

```
Example: 12 = 00001100 (In Binary)
25 = 00011001 (In Binary)

Bitwise AND Operation of 12 and 25
00001100
& 00011001

00001000 = 8 (In Decimal)
```

3. **<u>Bitwise XOR:</u>** The bitwise XOR ^ operator returns 1 if and only if one of the operands is 1. However, if both the operands are 0 or if both are 1, then the result is 0.

```
Example: 12 = 00001100 (In Binary)
25 = 00011001 (In Binary)

Bitwise XOR Operation of 12 and 25
00001100

^ 00011001
```

```
00010101 = 21 (In Decimal)
```

4. <u>Bitwise Complement:</u> The bitwise complement operator is a unary operator (works with only one operand). It is denoted by ~.It changes binary digits 1 to 0 and 0 to 1.

```
Example: 35 = 00100011 (In Binary)
~ 00100011
_____
11011100
```

5. <u>Left shift operator:</u> The left shift operator shifts all bits towards the left by a certain number of specified bits. It is denoted by <<.

Example:

```
212 = 11010100 (In binary)
212<<1 = 110101000 (In binary)
212<<0 = 11010100 (Shift by 0)
```

6. <u>Right shift operator</u>: The signed right shift operator shifts all bits towards the right by a certain number of specified bits. It is denoted by >>. When we shift any number to the right, the least significant bits (rightmost) are discarded and the most significant position (leftmost) is filled with the sign bit.

Example:

```
212 = 11010100 (In binary)

212 >> 2 = 00110101 (In binary)

212 >> 7 = 00000001 (In binary)
```

EXAMPLE PROGRAM FOR BITWISE OPERATORS:

```
class Bitwise {
 public static void main(String[] args) {
  int number 1 = 12;
  int number 2 = 25;
  int result1 = number1 | number2;
  int result2 = number1 & number2;
  int result3 = number1 ^ number2;
  int result4 = \simnumber1;
  int result5 = number2 << 2;
  int result6 = number2 >> 2;
  System.out.println("Bitwise or :"+(result1));
  System.out.println("Bitwise and:"+(result2));
  System.out.println("Bitwise xor:"+(result3));
  System.out.println("Bitwise complement:"+(result4));
  System.out.println("Bitwise left shift:"+(result5));
  System.out.println("Bitwise right shift:"+(result6));
OUTPUT:
Bitwise or :29
Bitwise and:8
Bitwise xor:21
Bitwise complement:-13
Bitwise left shift:100
```

Bitwise right shift:6