

# Alisha Z

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## EDUCATION

**KIT-Kalaigarkarunanidhi Institute of Technology, India**  
B.E Electronics and Communication Engineering | 2023-2027

Pre-Final year | **Current CGPA:** 8.1/10.0

## EXPERIENCE

### Web Developer Intern

**Brainery Spot Technology – Coimbatore, India (offline)**

**June 2025**

- Built and maintained functional web components using HTML, CSS, and JavaScript, ensuring organized code.
- Learnt to improve website responsiveness and enhanced page layouts for a better user experience.
- Used Git and GitHub for version control and collaborative development.

## PROJECTS

### Weather App | HTML, CSS, JavaScript

- Developed a web-based weather application to display real-time weather data.
- Implemented a city-based search functionality using OpenWeatherMap API.
- Designed a clean and responsive user interface for better usability.

### Student Pass-Fail Prediction Model | Python, Machine Learning

- Built a beginner-level machine learning classification model to predict student outcomes.
- Used study hours as input features to forecast pass or fail results.
- Implemented and executed the model locally using Python.

### Design and Validation of High-Performance Low-Power Parallel Prefix Adders| Linux, Cadence Virtuoso.

- Designed and tested the low-power high-performance parallel prefix adders, focusing on 8-bit and 16-bit Brent-Kung architecture.
- Implemented using Cadence digital Design tools with Verilog HDL and an in-house testbench and constraint environment.
- Analyzed the power and delay optimization methodologies without compromising timing and performance.
- Implemented the design to be behaviorally modelled and synthesized into gate-level form using **Cadence Genus** and post-synthesis timing and power analysis were performed in **Cadence Innovus**.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python

**Web Technologies:** HTML, CSS, JavaScript

**Database Technologies:** SQL

**Version Control Systems:** Git, GitHub

**Tools:** MySQL Workbench, IntelliJ IDEA, VS Code.

## CERTIFICATIONS & COURSES

freeCodeCamp – Responsive Web Design

Cisco – PCAP: Programming Essentials in Python

Infosys Springboard – Database Management System (Part 1)

Infosys Springboard – Database Management System (Part 2)

Infosys Springboard – C programming

## COMPETITIVE PROGRAMMING

**Leetcode:** 100+ algorithmic problems solved

**Max Rating:** 1556 | **Top:** 36.15%

**Codechef:** 1-star programmer

**Max rating** - 1206

Solved **150+** problems

**Codeforces:** Max rating – **924**

Enthusiastic Contest Contender

