



**SAHIL SAMEER DESHPANDE**  
**College : College of Engineering, Pune**  
**Course : B.Tech, Computer Engineering,**  
**2025**

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**ACADEMIC DETAILS**

**Subjects / Electives**

Principles of Programming Languages, Programming for Problem Solving, Data Structures and Algorithms

**Technical Proficiency**

**Java ,C++ Language,, Django, JavaScript, C Programming, HTML + CSS , MySQL, Machine Learning, PHP, Networking, Linux, React, Angular, Node.js, Express.js, Flask, Vue.js, PostgreSQL, SQLite, Git, Github, DataBase Management, Rust , CSS**

**PROJECTS**

**Implementation of Text Editor using Compressed Tries - Data Structures**    **May 2023 - May 2023**    [https://github.com/Sahil-Deshpande2003/Text\\_Editor\\_Using\\_Compressed\\_Tries](https://github.com/Sahil-Deshpande2003/Text_Editor_Using_Compressed_Tries)

- This project involves the use of **Compressed Tries** to create a text editor. The text editor supports the auto-complete feature.

**Binary Calculator using Linked List - Data Structures**    **Apr 2023 - Apr 2023**    [https://github.com/Sahil-Deshpande2003/Binary\\_Calculator](https://github.com/Sahil-Deshpande2003/Binary_Calculator)

- This project involves the replication of a Binary Calculator using **Linked List**.
- The main idea behind this project is that there is a limit to the range of an integer so we can't exceed that range while performing mathematical operations. However, there is no such range for a linked list. So we can use a linked list to perform mathematical operations involving large numbers

**2048 Game Project - Python**    **Oct 2022 - Oct 2022**    [https://github.com/Sahil-Deshpande-2003/2048\\_Game\\_Project](https://github.com/Sahil-Deshpande-2003/2048_Game_Project)

- 2048 is a popular puzzle game played on a 4x4 grid.
- The objective is to combine tiles with the same numbers, starting with two "2" tiles, to create a tile with the number 2048.
- With each move, the player can slide the tiles in one of the four cardinal directions (up, down, left, or right).
- When two tiles with the same number collide, they merge into one tile with double the value.
- New tiles, usually "2" or "4," randomly appear on the grid after each move.
- The game ends when the grid is filled with tiles and no more valid moves are possible, or when the player successfully reaches the 2048 tile
- This project involves the creation of 2048 game using **tkinter module** in Python.

**Huffman Coding - Python**    **Aug 2022 - Sep 2022**    [https://github.com/Sahil-Deshpande-2003/Huffman\\_Coding](https://github.com/Sahil-Deshpande-2003/Huffman_Coding)

- Huffman coding is a compression algorithm that assigns variable-length codes to different characters in a given dataset.
- It is based on the principle that frequently occurring characters are assigned shorter codes, while less frequent characters are assigned longer codes.
- By using shorter codes for commonly used characters, Huffman coding reduces the overall size of the encoded data, resulting in efficient compression.
- The algorithm works by constructing a **binary tree**, known as the Huffman tree, where each leaf node represents a character and the path to each leaf node represents its corresponding code.
- Huffman coding is widely used in various applications, including file compression and data transmission, to achieve efficient storage and transmission of information.

**Library Management - Django HTML CSS**    **Jun 2022 - Jun 2022**    <https://github.com/Pratima4003/RPOOP>

- This project involves the use of **HTML, CSS, and Django** to create a library management system in which the user can issue and return a book, whereas the librarian can observe the issuers of a book and he/she can also add a new book to the system.

## POSITION OF RESPONSIBILITY

**Blue House Prefect - Centre Point School**

**Apr 2018 - Feb 2019**

Looking after the discipline of the school.

Collaborating with other school leaders, including the School Captain, teachers, and administrators, to achieve common goals.

I was a part of the organization team for events such as Founder's Day, Sports Day, Fete, and Concert

## EXTRA CURRICULAR ACTIVITIES

CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Data Structures and Algorithms in C++	Coding Ninjas
Data Structures and Algorithms in Python	Coding Ninjas
Introduction to Python	Coding Ninjas

