

# Swapnil Patel

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in swapnil-patel



🔗 swapnilpatel2308

## Profile

I am currently pursuing my studies at Vishwakarma Government Engineering College. I am set to graduate in 2024 with a strong foundation in various programming languages, data structures, algorithms, and software development concepts. Throughout my academic journey, I have been exposed to a wide range of CS courses that have equipped me with problem-solving skills and the ability to analyze and design efficient solutions.

## Education

2020/06 – present  
Ahmedabad, Gujarat  
**Bachelor of Engineering**  
*Vishwakarma Government Engineering College*  
In the 3d year I had achieved **9.00 CGPA**

2018/06 – 2020/03  
Himatnagar , Gujarat  
**12th Board**  
*Faith Higher Secondary School*  
Percentile Rank-Science Theory = **96.00**  
Percentile Rank - Over All Theory = **90.84**  
Percentile Rank - Over All = **91.86**

2016/06 – 2018/03  
Munai,Bhiloda ,  
Gujarat, India  
**10th Board**  
*Sheth Shri Dahyalal Punjiram Shah High School*  
Percentile Rank = **99.17**

## Skills

### Operating System

Windows



### Software

MS-WORD,MS-EXCEL,MS-POWERPOINT



### Iot Device Control

Arduino, ESP, Rasbari-pi



### Basic Circuit Knowledge



### Programming Language

Python , C , JAVA



## Languages

• Hindi

• English

• Gujarati

## Certificates

- code in python 3 beginners online course (udamy.com) [↗](#)
- IBM Data science Course online [↗](#)
- Complete Data Science Internship(4 weeks) [SKILLVOID IIT ROORKEE] [↗](#)

## Projects

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### Disk scheduling algorithms simulator [↗](#)

The "Disk Scheduling Algorithms Simulator" implemented in Python is a simulation tool that helps users understand and compare different disk scheduling algorithms used in operating systems. The simulator provides a visual representation of disk operations and allows users to observe the behavior and performance of various disk scheduling algorithms.

The simulator supports popular disk scheduling algorithms such as FCFS (First-Come-First-Served), SSTF (Shortest Seek Time First), SCAN, C-SCAN, LOOK, C-LOOK, and more. Users can choose the algorithm they want to simulate and observe how it handles the given disk requests.

### Create A Pointer Pointer Web-site [↗](#)

The "Pointer Pointer Website" is an interactive web application that displays an image with human eyes following the movement of the mouse pointer. It creates a captivating effect where the eyes appear to track the cursor's position on the screen. The project utilizes HTML, CSS, and JavaScript to capture mouse movements and dynamically load images that align with the pointer's location. This engaging and playful website offers a unique user experience, combining visual effects and interactivity. It showcases the creative use of web technologies to create an interactive and entertaining application.

### Weather API Data Report [↗](#)

The "Weather API Report Generator" project is a web application that allows users to enter latitude and longitude coordinates to retrieve weather data from an external weather API. The application utilizes Python FastAPI to handle user requests and interact with the API.

When a user submits the latitude and longitude values, the application makes a request to the weather API (visualcrossing.com) and retrieves relevant weather information such as temperature, humidity, wind speed, and precipitation. The retrieved data is then processed and formatted into a graphical report.

### Simulation For Theory Of Computation [↗](#)

The "Theory of Computation Simulator" is a desktop application that offers a comprehensive environment for simulating various automata and computation models. It supports Finite Automata (FA), Deterministic Finite Automata (DFA), Non-Deterministic Finite Automata (NFA), NFA to DFA conversion, Mealy machines, Moore machines, and DFA string acceptance.

With an intuitive interface, users can create custom automata by drawing states, transitions, and accepting states. They can input strings to observe the automata's behavior, including state transitions, final state determination, and output generation for Mealy and Moore machines.

### Kmean Cluster Model Deploy on web [↗](#)

The "K-Means Clustering Web Page" is a user-friendly platform designed to visualize the behavior of the K-Means clustering algorithm with different values of K. It allows users to input two-dimensional data points and observe how the algorithm partitions the data into K clusters.

### Others

- **The "Infinite Storage"** [↗](#) :- In this project we can convert any document file into images and images to video and upload this video on you tube this is a one type of hack. also when we want our original data so we simply decode it.
- **The "Sorting Algorithm Simulator"** [↗](#) :- is a comprehensive web application that allows users to visualize and compare various sorting algorithms. It provides an interactive platform to observe the behavior and performance of popular sorting algorithms, including Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort, Heap Sort, Radix Sort, Bucket Sort, and Tim Sort.
- **The "Sokoban Game"** [↗](#) :- implemented in Python is an interactive puzzle game where the player's objective is to push boxes to their designated storage locations. The game consists of a grid-based layout, with walls, boxes, storage locations, and the player character.
- **The "Pixel Art Maker"** [↗](#) :- created in Python is a fun and interactive application that allows users to create pixel art designs. The program provides a canvas grid where users can select colors and paint individual pixels, creating intricate and colorful pixel art creations.
- **The "Arrow Shooter Game"** [↗](#) :- implemented in Python is an exciting and challenging game where players aim to shoot arrows towards a rotating circle. The objective is to hit the circle with accuracy while avoiding collisions between the arrows.