

# VRUTIK PATWA

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## Education

**SVKM's Dwarkadas J. Sanghvi College of Engineering**

**Jan 2021 – 2025**

*Bachelor of Science in Computer Science*

*CGPA: 8.23*

**Prakash College of Commerce & Science**

**2021**

*HSC, Maharashtra (MHTCET Percentile: 98.8)*

*Percentage: 85.50%*

**Children's Academy**

**2019**


*SSC, India*

*Percentage: 79.20%*


## Relevant Coursework

- Data Structures
- Database Management
- Automata Theory
- Discrete Mathematics
- Operating Systems
- Computer Networks
- Algorithms Analysis
- Digital Electronics

## Projects

**Movie Recommender System** | *NLP, Kaggle Dataset, Streamlit* | 

- Developed a movie recommendation system utilizing Natural Language Processing (NLP) techniques to analyze user preferences and Kaggle dataset for movie information.
- Implemented a user-friendly interface using Streamlit to allow users to input their preferences and receive personalized movie recommendations..


**Whatsapp Chat Analyzer** | *NLP, streamlit* | 



- Developed a WhatsApp Chat analyzer using Python to process and analyze chat logs.
- Implemented back-end logic to parse and analyze chat data, extracting meaningful insights such as message counts, active periods, and participant statistics.

**Parking-Guardian** | *ReactJS, tailwindcss, Django, PostgreSQL, IoT* | 

- Developed "Parking Guardian," an innovative IoT application using Raspberry Pi and u-blox, providing real-time nearest parking location updates using Leaflet maps.
- Implemented advanced anti-theft features to enhance vehicle security, utilizing Raspberry Pi's capabilities and integrating with u-blox for robust functionality.

**QuickChat** | *ReactJS, Tailwind CSS, ExpressJS, NodeJS, MongoDB, Socket.io* | 



- Built a full-stack real-time chat application enabling seamless one-on-one conversations with persistent message storage using MongoDB.
- Integrated Socket.io for real-time bi-directional communication between users, ensuring instant message delivery.
- Designed a responsive, intuitive UI with Tailwind CSS, and implemented features like user authentication, message status, and live user updates.

## Technical Skills

**Languages:** Python, C++, C, JavaScript, HTML/CSS, SQL

**Tools:** VS Code, Git, GitHub, Jupyter Notebook

**Frameworks/Tech:** React, Node.js, Express, MongoDB, Flask, Tailwind, OpenCV, Machine Learning, Deep Learning, NLP

**Soft Skills:** Problem Solving, Teamwork, Leadership, Mentoring

## Leadership / Extracurricular

**DJS Helios**

**Sept 2022 - Aug 2024**

*OpenCv developer & Mentor*

- Mentoring a team of junior developers in utilizing OpenCV for image processing tasks, guiding them in algorithm implementation and optimization.
- Conducted training sessions and workshops on OpenCV fundamentals.

## Achievements

- **Top 10 Finalist** – Manipal University DataThon: Developed a language prediction website using NLP.
- **Codeforces:** Pupil Rank (**Rating: 1255**)
- **LeetCode:** Solved **350+** problems, Current Rating: **1570**