DHRUV KUSHVAHA

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EDUCATION

Vivekanand Education Society's College of Arts, Commerce and Science, Chembur, Mumbai, Maharashtra

Bsc. Computer Science │ CGPA (Till Sem 5) : 9.94 │ **July 2022 - April 2025**

PROJECTS

Edutrack: Learning Management System │ *Python, MySQL, Twilio Messaging API, Libraries: CustomTkinter*

- Developed a Python-based software school management system with a user-friendly GUI to streamline admissions, attendance, grading, and notes management.
- Integrated Twilio API for automated SMS notifications and OpenAI API to power a personalized student chatbot.
- Optimized performance using efficient data structures, ensuring seamless multi-user role management for administrators, teachers, and students.

DivyaDrishti – Smart Assistance for the Visually Impaired │ *Python, Raspberry Pi, ML Models*

- Collaborated on an IoT-based assistive system using Raspberry Pi and camera sensors to aid visually impaired users by recognizing surroundings.
- Integrated OpenCV with pre-trained object and human detection models to identify entities in real-time and generate descriptive summaries.
- Used text-to-speech to deliver audio feedback via earphones; project was proposed at KIIT Project Innovation Contest.

Invisibility Cloak – A Fun Vision-Based Demonstration │ *Python, OpenCV, Real time image masking*

- Designed a real-time invisibility cloak simulation using OpenCV, showcased during the college Science Mela event.
- Utilized color masking and image subtraction to create a transparent illusion by capturing the reference background's RGB color range.
- Demonstrated real-time video frame manipulation and masking techniques to inspire students about computer vision.

TECHNICAL SKILLS

Languages: Python, SQL
Frameworks: Flask, Django
Tools and Software: Git and VS Code
Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn
APIs & Services: OpenAI API, Google Cloud, Jupyter Notebook, Google Colab
Databases: SQL, Firebase
Other: Object-Oriented Programming (OOP), Data Structures

SOFT SKILLS

Problem Solving & Teamwork: Built AI models; collaborated on projects and research.
Communication & Leadership: Content writing intern; led as event/lab in-charge.
Adaptability & Quick Learning: Picked up new tools and tech across diverse projects.
Collaboration and Team Player: Worked as a part of team, participated at KIIT PIC with an IOT Project

ACHIEVEMENTS

- Secured Best Student Runner-Up Award (2024-2025)
- Reached Zonal Level in Aavishkar Research Competition 2024-2025.
- 3rd Prize (Group) in Software Development Competition at the college level.
- Served as Class Representative in the Student Council.

CERTIFICATES

- Advanced Data Science and Machine Learning by Infosys Springboard