RISHIKESH DINDE | CE21M061| IIT Madras |PR/33/CE/23/061

LinkedIn || GitHub

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	%/CGPA	Year
M.Tech in Civil Engineering	IIT Madras, Chennai	8.02*	2023
B.E. in Civil Engineering	Shivaji University, Kolhapur.	81.94%	2021
Class XII (Maharashtra State Board)	S. M. Lohia Jr. College, Kolhapur	78.92%	2017
Class X (Maharashtra State Board)	New English School, Bahireshwar.	90.2%	2015

Scholastic Achievements	• Secured All India Rank 1777 in GATE – 21 in Civil Engineering among 115270 students • Awarded Scholarship of **Indian Chapter of American Concrete Institute** in B.E. • Awarded **Shivaji University 1st Ranker** in Civil Engineering Scholarship for the first two years.

RELEVANT COURSES AND SKILLS * - Ongoing courses

Machine Learning in Civil Engineering*	Applied Statistic *	Pavement Management System
Pavement Analysis and Design	Urban Transportation Planning	Transportation Engineering Studio
Language: Python, MySQL	**ML Tools:** NumPy, Pandas, Matplotlib, Seaborn.	
Software: Origin, MS Excel, AutoCAD, KENPAVE.	**Technical skills:** DBMS, OOPS, Data Structure Algorithm	

PROFESSIONAL EXPERIENCE AND PROJECTS

Digital image analysis on construction site (July'22-Present)	**Course: Machine learning in civil engineering** by **Dr. Benny Raphael, Professor, IITM.** • Implemented **COLOR PICKER SCRIPT** based on images. • **Taskbar** feature used to get Hue, Saturation and Value limits for different colors with the least noise. • Library used: **NumPy, OpenCV, and CVV in python.**
Error detection in Public Survey (July'22)	• Built logic that identifies errors in huge data from the public survey. • Developed algorithm used in IITM project '**Last mile connectivity'** from the transportation department • Used **NumPy and Pandas library**.
Number Plate Recognition System (July'22)	• Used **OpenCV & CVV** libraries for automatic vehicles Number plate detection from images and real-time videos. • **Haar Cascade Feature** and **Multiscale function** used for object detection. • Used **VIOLA JONES FACE DETECTION (trained model)** algorithm to recognize plates.
Virtual painter - Computer Vision Project (July'22)	• Used **OpenCV and CVV** to Implement real-time webcam-based VIRTUAL PAINTER. • Used **CHAIN_APPROX_SIMPLE** algorithm Contour detection & **RETR_EXTERNAL** as contour retrieval mode. • Implemented **COLOR PICKER SCRIPT** (webcam based) in HSV space from scratch to get the minimum and maximum value of Hue, Saturation & Value with Taskbar. • Used **Canny edge detector** for boundary detection of markers in real-time.
Student registration form (Jun'22)	• Used **Tkinter** library to create a student registration form that has features to search, add, update and delete Information. • This data is connected with **MySQL database**.
Workshop on GIS (Jan'20)	**Short-term training program on Recent Advances in GIS and its Applications in Civil Engineering:** • Learned about different GIS tools. • Used **Q-GIS** software to study the topography of India, Irrigation system & find catchment areas in Maharashtra regions
Summer Internship (May'20-Jun'20)	**Site Engineer Intern- Sagar Construction** • Worked primarily on pile foundation, RMC plant operations, and properties of RMC concrete. • Studied the alignment of the bridge of the State highway project.

POSITIONS OF RESPONSIBILITY

Member of IC-ACI	• Member of the **Indian chapter of American Concrete Institute (IC-ACI)** for 1 year. • Organized and actively participated in various events under ACI.

EXTRA-CURRICULAR ACTIVITIES

2nd in the 'POSTER PRESENTATION'	• 2nd winner of poster presentation event come under vibrant.
Winner of 'SURVIVOR' event	• 1st prize winner of Event held under vibrant in Sanjay Ghodawat Institute based on Survey Course.
Hobbies and Interest	• Swimming, Cricket, Trekking