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	8.09*	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, HTML

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