RISHIKESH DINDE

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	%/CGPA	Year
M.Tech in Civil Engineering	IIT Madras, Chennai	8.46	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

Pavement Construction Technology	Geosynthetics & Reinforced Soil Structure	Pavement Management System
Pavement Analysis and Design	Urban Transportation Planning	Transportation Engineering Studio
Machine Learning in Civil Engineering	Advance Concrete Technology	Geometric Design of Highways

Software: Origin, MS Excel, AutoCAD, KENPAVE, SUPERPAVE, MEAPA, RHEA.   **Language:** Python, MySQL, HTML

PROFESSIONAL EXPERIENCE AND PROJECTS

MTech Project (July'22-Present)	**Use of Agro-Industrial waste as a cementitious material as a complete replacement for existing OPC** **Guide:** Dr. Surender Sing, Assistant Professor, IIT Madras; Dr. Piyush Chaunsali, Assistant Professor, IIT Madras. • Formulating of cementitious binder that can reduce the dependency of the construction sector on OPC • In this way, we can produce eco-friendly cement, reducing the overall CO_2 Production in cement industry. • Base materials used to prepare the new binder are Sugar cane bagasse ash and granulated blast furnace slag.
BE Project (July'20-May'21)	**Weak foundation soil stabilization by using agro-industrial waste.** **Guide:** Prof. Amey Katdare. Professor, SGI Kolhapur • The use of Rice husk ash and lime to stabilize weak soil • Soil that is unsuitable for construction can be converted into the chemical-free, eco-friendly strong stable foundation.
Summer Internship (May'20-Jun'20)	**Site Engineer Intern- Sagar Construction** • Worked primarily on pile foundation, RMC plant operations, and Fresh properties of RMC concrete. • Also study the alignment of the bridge of the State highway project.
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. • Q-GIS tool is used to study the topography of India, Irrigation system and find catchment areas in Maharashtra regions.
Interchange Design (Aug;21-Nov'21)	**Interchange Design for any metro city having a real-time problem with Traffic.** • In this project, we designed a single-point interchange for **KPT junction Mangalore** • Interchange and its components are designed based on existing traffic data, that will run for 20year lifespan safely.
Digital image analysis on construction site (July'22-Present)	**Course: Machine learning in civil engineering Guide: 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**.

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 the poster presentation event comes 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