

Education

- **Bachelor of Technology** Bhilai, Chhattisgarh
IIT Bhilai, 2020 - 2024
CGPA: 7.97
- **12th | St. Joseph's Convent School** Bhopal, M.P.
2019
Percentage: 93
- **10th | St. Joseph's Convent School** Bhopal, M.P.
2017
CGPA: 10

Internship

- **Codsoft ([Github Link](#)) Intern** 08 / 2023- 09/2023
Design a website with my resume and active project links and online to do list.
- **Vardhan consulting Engineers Project Intern** 05/2022 – 07/2022
Design and analyse yield and losses for a rooftop solar power plant using PVSyst. Prepared a report detailing AC and DC losses and analysis of PV Modules and Inverters
- **Verdatun AI Intern** 05/2023 - 07/2023
Design and build a communicator to transmit data through metal walls and from within enclosures using Inductive Power Transfer. Analyse the optimum modulation techniques, coil ratios, amplifiers etc for the given specifications.

Technical Skills and Interests:

- **Languages:** Python, C++, HTML, CSS, SQL
- **Software Tools:** Arduino, Xilinx-FPGA, GNU Radio, Matlab, Solid Edge, Power BI, VSCode, LaTeX, Git

Personal Projects

- **ML BASED FRUIT RIPENING DETECTOR** 02 2022 - 04 2022
Course: EE171 Independent Project 1
Collect, visualise and analyse the resistance and impedance data and find trends to predict the state of the fruit using Excel and Decision Tree Algorithm
- **Stock Prices Prediction using RNN and LSTM** 09/2022
Course: CS550: [Machine Learning](#)
Estimate the Stock market and forecast for the next month based on the underlying trends using FBprophet, ARIMA and RNN with LSTM models. Compare the predictions of the three and find the optimum method.
- **Course Recommender System** 08/2023
[Github Link](#)
Preprocess, analyse and visualise the data to predict based on a student's details and grades whether the courses are feasible using various algorithms and compare the results.

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- **New York Taxi Fare Prediction using NN** **11/2022**
 Course: CS550: [Machine Learning](#)
 Implemented various models of Neural network to predict the Taxi Fare and the most influential trends and feature vectors were identified. Build pipelines and visualise the data.
 - **Piezoelectric Footstep Energy Generation** **02/2023 - 04/2023**
 Course: EE371 Independent Project.
 Piezoelectric plates use to generate energy to charge a battery, applications in mobile/smartwatches etc build current amplifier in the circuit to make a wearable mode
 - **IMSI Catcher** **03/2022 - 04/2022**
 Course: EE515 Wireless Communication Security with SDRs
 Using RTL-SDR we managed to capture the IMSI and Phone numbers of 2G phone numbers. Experimented with Data capturing using gr-gsm and Wireshark.
 - **Client Server Application** **10/23**
 Using Socket programming developed a client server application for document editing and sharing with notifications.

Positions of Responsibility

- Core Member Drishya (Dramatics Club) 01/23 - 04 /23
- Member of Inter IIT Cultural Contingent 01/2023
- Scriptwriter and actor, Drishya 2022-23
- Member, Goals 2020-22
- Member, Epsilon (Robotics Club) 2023
- Event Coordinator (Meraz) 2022
- Member, Sponsorship Team (Meraz) 2022
- Member, PR and Publicity Team (Meraz) 2022