Nitisha Gupta

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EDUCATION

National Institute of technology, Raipur
Bachelor of Technology in Civil Engineering
07/2018 – present | Raipur, India
CPI : **8.69** (7th semester)

PROFESSIONAL EXPERIENCE

Transfer optimisation of inter-city trains with bus service by schedule clustering for developing city.
Research paper | Summer Intern at NITRR
05/2021 – 06/2021
- Implemented Selection of shortest routes using **Dijkstra's Algorithm**.
- Selected routes on the basis of profitability using **Regression analysis**.
- Optimized coordination of bus-train-transit system using **C++** and **VBA**.

PROJECTS

Pedestrian Safety Evaluation at unsignalised intersection using PET as Surrogate safety measure.
Major Project | NITRR
03/2022 – present
- Post Encroachment TIme(PET) and vehicle speed is extracted from on-field data.
- Implemented **Support Vector Machine (SVM)** model and **Cumulative Distribution Frequency (CDF)** plot to classify three (normal, severe, and highly severe) types of conflict.
- Accuracy Score of SVM 76.47% and CDF 64.7%.

Weather 🔗
GitHub Repo 🔗
- Built with **Flask, SQL, HTML**, and **CSS** using **OpenWeatherMap API** and hosted on **Heroku**.
- This application helps in getting the current weather for any city in the world.

Task Master 🔗
GitHub Repo 🔗
- Built with **Flask, SQL, HTML**, and **CSS** and hosted on **Heroku.**
- This app performs CRUD operations and makes a checklist of things to be done.

Colour Generator 🔗
GitHub Repo 🔗
- Built with **React, CSS**, and **Values.js** and hosted on **Vercel.**
- This app generates 10 tints and 10 shades of any hex code which can be copied to the clipboard.

Task Manager
GitHub Repo 🔗
- Built with **Node.js, Express.js, MongoDB**, and **Mongoose**.
- This app performs **CRUD** operations and makes a checklist of things to be done.

Portfolio 🔗
GitHub Repo 🔗
- Built with **HTML, CSS**, and **JS**.
- Responsive personal portfolio website.

Xylophone
GitHub Repo 🔗
- Built with **Flutter, Dart**, and flutter **packages** (audioplayers).
- This android app plays 7 notes of xylophone.

SKILLS

MS Excel │ VBA │ SVM
React.js │ Node.js
Express.js │ MongoDB
MySQL │ Github
Linux │ Flask │ Flutter
Regrssion Analysis

LANGUAGES

Python • Java • Macros
JavaScript • HTML
CSS • Cpp

SOFTWARES

AutoCAD • Revit
STAAD Pro • Ansys
MATLAB • Quantum GIS

COURSES

NodeJS Tutorial and Projects
Udemy

Web Development Bootcamp
Udemy

Overview of Geoprocessing using Python
IIRS, Bangalore

Flutter Development Bootcamp
Udemy