VIKASH KUMAR

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FULL-STACK DEVELOPER

EDUCATION

CHINMAYA VIDYALAYA, BOKARO   2018
PCM with CS

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI   2019-2023
B.Tech. - Civil Engineering

WORK EXPERIENCE

RESEARCH INTERN | University of Guelph, Canada   JUNE-2022 - OCTOBER 2022
- Development of application using Flutter for soil classification using AI.
- Backend developed using Node and Express. Models where deployed using Flask.
- Involved Tech: Flutter, Python, Flask, NodeJs,
- Machine Learning for development of models.

ML INTERNSHIP | IIT INDORE   MAY 2022 - JUNE 2022
- Development of an ML model which achieved 93% accuracy on test data.
- Traffic Sign Recognition via Image Processing using GTSRB Dataset. CNN Model to be used in Automatic cars.
- Tools and Tech: **Python, CNN, Tensorflow**

Web Development Intern | Inayat   MAY 2022 - JUNE 2022
- Development of website.
- Tech Involved: HTML, CSS, JAVASCRIPT, BOOTSTRAP and FIREBASE

PROJECTS

SHARITO
- Real-time Communication: Leveraged Socket.io to establish instantaneous and uninterrupted connectivity, facilitating seamless interactions with acquaintances. Implemented robust JWT-based authentication mechanism to ensure secure user identification.
- Photos Sharing: Share photos and posts with global community, fostering a vibrant online community.
- Tech Used: **NextJS, TailwindCSS, Express, NodeJS, MongoDB, Socket.io and REST APIs**

THE SOIL APP
- An android application that uses ML models for detecting soil type with an image and creating a database with corresponding location data.
- The app also acts as an AI assistant as it uses OpenAI's GPT-3 API to solve soil related queries.
- Tech used: **Flutter, Express, NodeJS, MongoDB, Python and CNN**

FINGER PAINTER
- A Python application which can track hands and allow the user to paint on screen using hand gestures.
- User can change colors, erase their drawings. User need to use to two fingers to select a menu and one finger to draw.
- Tech Used: **Python, OpenCV, Mediapipe**

COMPETITION

Flipkart Grid 2.0
- Autonomous robots using Arduino, openCV, python and ML. Reached level-2

SKILLS

HTML|CSS| JAVASCRIPT | REACT JS | NEXT JS | NODE JS | EXPRESS JS | MONGODB | FLUTTER | C++ | PYTHON | ML | GIT