

# VIKASH KUMAR

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## FULL-STACK DEVELOPER

### EDUCATION

**CHINMAYA VIDYALAYA,  
BOKARO**

PCM with CS

2018

**BIRLA INSTITUTE OF  
TECHNOLOGY, MESRA, RANCHI**

B.Tech. - Civil Engineering

2019-2023

### WORK EXPERIENCE

**RESEARCH INTERN | University of Guelph, Canada**

JUNE-2022 to OCTOBER 2022

- Development of application using Flutter for soil classification using AI.
- Backend developed using Node and Express. Models were deployed using Flask.
- Involved Tech: Flutter, Python, Flask, NodeJs,
- Machine Learning for development of models.

**ML INTERNSHIP | IIT INDORE**

MAY 2022 TO JUNE 2022

- Development of an ML model which is to be used in autonomous cars.
- Traffic Sign Recognition via Image Processing using GTSRB Dataset
- Tools and Tech: **Python, CNN, Tensorflow**

**Web Development Intern | Inayat**

MAY 2022 TO 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 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