

Vishwajeet Kumar

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EDUCATION

National Institute of Technology Sikkim

Bachelor of Technology
Electrical and Electronics Engineering

12/2021 – present

G.D Mother International School

Intermediate (XII)

2020

PROFESSIONAL EXPERIENCE

Junior Embedded and IOT Engineer

9Pointers pvt.ltd

Face Detection and Greeting Device: Developed using OpenCV, Raspberry Pi, and TensorFlow to enhance attendance monitoring and user interaction.

Voice-Controlled Table Height Controller: Created using Arduino Cloud, ultrasonic sensor, ESP32, and relays to automate and improve ergonomic adjustments.

06/2024 – 07/2024

jaipur

Summer Training

NTPC Limited

Worked alongside engineers to gain foundational knowledge of switchgear protection systems and power generation processes, observing how different teams collaborate to ensure the smooth operation of a high-voltage power plant.

07/2023 – 08/2023

SKILLS

Programming Language

C, C++, Python, JavaScript

Software Development

HTML, CSS, React.js, Dart, Flutter, Redux, Node.js, Express, Django, Flask, MySQL, PostgreSQL, MongoDB, socket.io, Firebase, JWT, Redis, AWS, Google Cloud, Docker

Machine Learning

NumPy, Pandas, SciPy, Matplotlib, Seaborn, Scikit-Learn, OpenCV, TensorFlow, Keras, PyTorch

Microcontrollers and Microprocessor

Arduino, Raspberry Pi, ESP8266, GPIO Programming, STM32 microcontrollers, I2C, SPI, UART

Version control

Git

PROJECTS

Grozo (Grocery Shopping App)

Live App (Drive link) 📄

Developed a grocery delivery app in Ravangla, Sikkim, for doorstep delivery.

- **Tech Used:** Flutter for the shopkeeper interface, Node.js and Express for the backend, SQLite for local storage, PostgreSQL as the main database, and Redis for caching. Integrated Firebase and JWT for secure authentication.
- **Features:** Intuitive UI for inventory and order management; enhanced application security.

Chatify 📄

Developed a real-time chatting app with features for real-time photo and file sharing, all within an interactive UI.

- **Tech Used:** Utilized React.js, Next.js, and Vue.js for frontend development, and MongoDB for data storage and retrieval.
- **Features:** Included group chats, avatar customization, and custom animations to enhance user experience.

Face Recognition and Greeting System 📄

Developed an innovative face recognition and greeting system as part of an internship, leveraging OpenCV, DeepFace, and TensorFlow on a Raspberry Pi. The project aimed to enhance security and streamline attendance management in various settings.

- **Tech Used:** Utilized advanced machine learning techniques with TensorFlow to boost recognition accuracy from 75% to 86%, enabling the system to identify individuals in real-time and greet them by name.
- **Features:** Successfully deployed in an office environment, demonstrating its effectiveness in improving workplace security and attendance tracking. The system is designed for scalability, making it suitable for various public spaces and organizations.

Maze Solver Robot 📄

Event: TECHNEX'23 (IIT BHU)

Developed a robot to autonomously solve mazes using PID control and LSRB algorithm.

- **Tech Used:** Arduino UNO, IRLS08 sensors, ultrasonic sensors, and L298 motor driver for navigation.
- **Features:** Integrated IR and ultrasonic sensors for precise navigation with effective control systems.

Tripling 📄

Developed a web application for discovering nearby camping sites and hotels using Node.js, Express.js, MongoDB, and React.js.

- **Tech Used:** Focused on seamless user experience with efficient data management and responsive design.
- **Features:** Implemented location-based search, user reviews, and detailed listings for camping sites and hotels.

POSITION OF RESPONSIBILITIES

The Regnant Ink (TRI)

Web Development Lead

Led a team of five members in the successful development and management of web projects for The Regnant Ink.

2023 – present

E & I Cell

Member

Actively contributed to the activities of the E & I Cell, collaborating with peers to organize events and initiatives aimed at fostering entrepreneurship and innovation within the community.

2022 – 2023

CERTIFICATES

• TECHNEX'23 MazeX 📄

• CodeRush'23 📄

• Web Development 📄