

# SHADAB KN.

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## EXPERIENCE

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### CIPHERBITZ IT SOLUTIONS

#### Python Intern

Hubli, Karnataka

Sep, 2022 -Dec,2022

- Independently designed and executed the entire software infrastructure using Python, integrating PyQt5 for the Graphical User Interface (GUI) with Django and Flask.
- Orchestrated the seamless integration of an Arduino-based RFID scanner system into the software, alongside interfacing with weigh scales and managing databases using SQL and PHP.
- Actively engaged with clients to gather requirements and implemented requested changes throughout the project lifecycle, ensuring alignment with client objectives. Led efforts to automate and digitize shipment verification processes, resulting in a remarkable 40% increase in efficiency and productivity within industrial settings.
- Demonstrated exceptional project management skills, overseeing end-to-end development while maintaining open communication channels to address client needs and project milestones effectively.

## EDUCATION

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### B.E - INFORMATION SCIENCE & ENGINEERING

Aug, 2019 -Sep,2023

*KLS GOGTE INSTITUTE OF TECHNOLOGY*

*Visvesvaraya Technological University, Karnataka(VTU)*

CGPA : 8.49

• Founded and led Robotics Club for 4 years as Managing President, leading workshops, contests and activities in Technical Fest Avalanche. Created the theme "Coding without Language" for non IT branch students to start coding with Drag and Drop Platforms like MIT App Inventor and conducted 2 workshops based on MIT App delivering valuable insights and strategies to use the platform, from my 8 years of experience.

## PROJECTS & RESEARCH

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### 1. MULTI DOCUMENT CHATBOT USING HUGGING FACE EMBEDDINGS & LLM LLAMA7B

- Developed an application that empowers users to efficiently navigate through extensive collections of documents, extracting meaningful insights and engaging in conversational queries based on the document content.
- It aims to bridge the gap between document retrieval and contextual conversation, simplifying information access, helpful especially for research students working with papers and thesis.

### 2. OPENCV BASED SELF DRIVING CAR USING PIXEL SUMMATION ALGORITHM

- Developed a self-driving robotic vehicle using Arduino C++ & RaspberryPie, which detects lane with 480x240 pixel density frame image of camera.
- The software comprises basic image transformation and pre-processing functions that delivers to a robust algorithm of pixel summation, which showed an accuracy of 93%.

### 3. 3D HEAD BASED NAVIGATION SYSTEM FOR BLIND USING HAPTIC FEEDBACK

- Developed with my team as university final year project, "HeadNav" is a Haptic Feedback based navigation system for blind, which can detect objects 180 deg, developed across Arduino based C++.
- The vibration motors created a pattern-based input for the user to detect pathway, with increase reaction time by 70% and reliability to 80% users.

## SKILLS

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PYTHON • C++ • MACHINE LEARNING • NATURAL LANGUAGE PROCESSING • PYQT5 • DJANGO • PANDAS • MYSQL • MONGODB • REST API • LLMs • OPENCV • HTML + CSS • PHP • DATA STRUCTURES & ALGORITHMS