



# Sukhi Tongali

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## EDUCATION

**KLE Technological University**

Bachelors in Electrical and Electronics Engineering

2020 – 2024

CGPA: 8.36

## PROFESSIONAL EXPERIENCE

**VOCAB.AI Private Limited**

Developer (AI-ML)

Aug 2024 – present

- Automated customer lifecycle data management, optimizing pipelines and reducing errors.
- Engineered multilingual support systems using AI and NLP for processing.
- Implemented automated quality audits, minimizing manual checks and operational risks.
- Designed cost-effective speech/text analytics solutions, integrating API and client deployment.

**Indian Institute of Information Technology, Dharwad (IIIT)**

Research Intern

Apr 2024 – Jul 2024

- Exploring the domain of Large Language Models (LLMs) for speech applications.
- Data preprocessing, model training, evaluation and deployment on Raspberry Pi using Neural Machine Translation (NMT) tool kit.
- Fine tuned a llama 3 model for direct speech to speech translation with discrete units for Indic language.

**Center of Excellence in Visual Intelligence (CEVI)**

Project Trainee

Aug 2023 – Mar 2024

- Worked on segmentation, classification and annotations of medical imaging.
- Captured in-house data to train the model with state-of-the-art facilities.
- Designed a deep learning framework for semantic segmentation and classification of histopathological image slides.

## ACADEMIC PROJECTS

**Pre-Detection of oral Cancer - Histopathology**

- We proposed a learning-based framework for histopathology image analysis towards oral cancer detection.
- We designed a deep learning framework for semantic segmentation and classification of histopathology images.

**FlashFade: Neutralizing Flash Effects in images using AI**

- We proposed AI-based framework to synthesize flash effect in images. This algorithm is developed to be ported on edge devices with no physical flash devices.
- We captured in-house data to train the model with state-of-the-art facilities.

**Dual DC Motor Speed Control Based On Digital PWM Signals Using AT89C51 Microcontroller.**

- In this project, the speed is controlled separately of dual DC motor by generating PWM signal and using AT89C51 Microcontroller.
- The PWM is generated using different duty cycles to help in control of DC motors.

## TECHNICAL SKILLS/ TOOLS

C++ | OOPs | Python | Machine Learning and Algorithms | Deep Learning | MATLAB Modelling and Simulation | MS Office

## SOFT SKILLS

Leadership | Teamwork | Mentoring | Organising Technical Events | Communication | Problem Solving | Time Management

## ACCOMPLISHMENTS

**Design Mentor Smart India Hackathon (SIH 2024)**

Invited by Ministry of Education for mentoring participants of **Smart India Hackathon** at KCG College of Technology, Chennai.

**Winners Smart India Hackathon (SIH 2023)**

Developed innovative solutions for heritage site preservation, recognized for teamwork and brought honor to university – SIH 2023 Winner.

**Literary Secretary**

Enhanced vocabulary and literary engagement through leadership as Literary Secretary of KLE Tech Student Secretary Council.

**Core committee of coordinators for 11th International Conferences (ICTIEE) and (REES) - 2024**

Efficiently managed the **program schedule**, travel and accommodation logistics for international delegates at KLE Technological University.

**State Level Verbatle Competition**

A prestigious state-level debate tournament; showcased critical thinking and communication skills, advancing to the **skirmish level** at Garden City College, Bengaluru - 2016

## INTERESTS

Squash and Carrom in Sports | Listening to Music | Cooking authentic food | Exploring new places

## LANGUAGES

English | Kannada | Hindi