

# Shridhar Suregaonkar

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## EDUCATION

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### KLE Technological University

BE, Computer Science and Engineering (Current CGPA: 8.71)

Hubli, Karnataka

Nov. 2022 – May 2026

### KCD

PCMB (Class XII), Percentage: 82.66%

Dharwad, Karnataka

2020 – 2022

### Bethel English Medium High School

SSLC (Class X), Percentage: 94.08%

Hubli, Karnataka

2018 – 2020

## PROJECTS

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### Transcript Alignment with Timestamps for Video Segmentation

- Developed an automated video segmentation system aligning frames with transcript timestamps using WhisperX for speech-to-text and RoBERTa for textual segmentation.
- Implemented Sentence-BERT and CLIP for text-video embedding similarity.

### Real-time ISA (In-Semester Assessment) Seating Arrangement Generation

- Developed a web-based system that automatically generates student seating arrangements for assessments.
- Implemented functionality for faculty to modify seating arrangements as needed.
- Used React for the front end and MongoDB for database management.

### Commercial Plot Allocation

- Developed a Plots finding system using C programming language and the dataset includes all states and districts of India, and generated 2.9MB of random plots data.
- Implemented search filtering, querying functionalities, and price range selection to efficiently find plots based on location.
- Applied various Data Structures and Algorithms (DSA) principles to optimize performance and retrieval speed.

## PUBLICATIONS

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### Improving Robustness of DNNs Against Adversarial Attacks using RAILS, Jacobian Regularization, and Label Smoothing

- Proposed a defense mechanism combining RAILS, Jacobian Regularization, and Label Smoothing to enhance DNN robustness.
- Demonstrated resilience against FGSM and PGD attacks on the MNIST dataset while maintaining model accuracy.
- Published in Springer Lecture Notes in Networks and Systems.
- Presented at CRM2025, SR University, Warangal (Feb 01-02, 2025).

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, HTML, CSS, JavaScript, Arduino

**Libraries:** Pandas, NumPy, Matplotlib, Torch, OpenCV, Ultralytics, Sklearn, torchvision, pymoo, pysot, moviepy

**Frameworks & Databases:** Express.js, Node.js, React, MongoDB