

# Harshita Sanjay Trimukhe

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## SUMMARY

Motivated Computer Engineering graduate with strong skills in Python, JavaScript, React.js, Node.js, and Machine Learning. Experienced in developing full stack web applications and implementing deep learning models for NLP (Natural Language Processing) tasks. First author of an IEEE-published research paper titled “Comparison of Emotion Through Text Analysis Using Various Deep Learning Models” presented at ICBDS 2024. Skilled in working with databases (MySQL, MongoDB), REST APIs, and data visualization tools. Eager to apply problem-solving and innovation skills in the fields of Full Stack Development and AI-driven applications.

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## EDUCATION

B.E. in Computer Engineering, Savitribai Phule Pune University — CGPA: 7.93 (June 2024)

HSC, K.B.H. Jr. College — 75.85% (June 2020)

SSC, R.B.H. Kanya Vidyalaya — 90.00% (June 2018)

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## SKILLS AND INTEREST

- **Programming Languages :** Python, JavaScript, C++
  - **Web Technologies :** HTML, CSS, Bootstrap, React.js, Node.js, Express.js
  - **Databases :** MySQL, MongoDB
  - **Tools and Platforms :** VS Code, GitHub, Google Colab, Jupyter Notebook
  - **Deep Learning Models :** CNN, RNN, LSTM, Bi-LSTM
  - **Soft Skills:** Time Management, Good learner, Team Work, Good Communication, Problem Solving.
  - **Other :** DSA, Mathematics, Microsoft Office
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## PROJECTS

### COMPARISON OF EMOTION THROUGH TEXT ANALYSIS USING VARIOUS DEEP LEARNING MODELS

- Developed a system to classify emotions in text data using deep learning techniques such as RNN, CNN, LSTM and BI-LSTM.
- Preprocessed large datasets of text for feature extraction and sentiment analysis.
- Trained and evaluated multiple models, achieving improved accuracy in emotion classification tasks.
- Compared performance metrics (accuracy, precision, recall, F1-score) across various models to determine the most effective approach.
- Visualized results and insights using Python libraries like Matplotlib and Seaborn.

### PDF TO TEXT CONVERTER AND AUDIO TRANSLATOR

- Developed a Python-based tool to extract and convert text from PDF documents.
- Implemented OCR for image-based PDFs using Tesseract to ensure accurate text extraction.
- Handled various PDF formats and optimized processing for batch conversion.
- Built an audio translation system for converting speech to text and translating it into multiple languages.
- Utilized speech recognition (Google Speech-to-Text) and translation APIs for seamless language conversion.

### BLUETOOTH-CONTROLLED CONTACTLESS SMART DUSTBIN USING ARDUINO

- Designed and developed a contactless smart dustbin controlled via Bluetooth using Arduino.
  - Integrated an ultrasonic sensor for automatic lid opening based on proximity detection.
  - Reduced physical contact to improve hygiene and efficiency in waste disposal.
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## INTERNSHIP | SUMAGO INFOTECH

### Worked As Full Stack Development Intern

Task Tracker : Developed Using Python Frameworks (Flask)

Calculator : Developed Using HTML, CSS, JavaScript

Text Editor : Developed Using Python

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## CERTIFICATIONS & ACHIEVEMENTS

python, Full Stack Development, Web Development, CCC certificate , IEEE Conference

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## PROFILES

LinkedIn : <https://www.linkedin.com/in/harshita-trimukhe-96688025a> |

GitHub : <https://github.com/harshitatrimukhe>

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## PUBLICATIONS

First author of the IEEE-published paper titled “Comparison of Emotion Through Text Analysis Using Various Deep Learning Models” presented at the 3rd IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS 2024).

Link : <https://ieeexplore.ieee.org/document/10837386>