# Dnyanesh Kavate

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### **Education**

**Vellore Institute of Technology, Bhopal *September 2022 - Present***

*B. Tech, Department of Computer Science and Engineering CGPA: 8.21*

**M.S Gosavi College of Science and Commerce, Nashik *June 2020 – March 2022***

*Class XII, HSC Percentage: 71.83%*

**Wisdom High International School, Nashik *June 2013 – March 2020***

*Class X, IGCSE Percentage: 78.88%*

### **Projects**

**SignSense – ASL converter | TensorFlow, OpenCV, Mediapipe, Flask, React, JS**

* Designed and developed a real-time solution for translating American Sign Language (ASL) gestures into text, helping real-time communication for the hearing-impaired
* Trained on a dataset of over 72k images using a stacked architecture, achieving an accuracy of 99.22%
* Deployed a scalable, full-stack application using Flask and React.js for seamless user interaction

**Text summarization using BART and Llama | PyTorch, HuggingFace, Transformers, Llama-7b**

* Developed an AI-powered text summarization tool using BART and LLaMA-7b, enhancing readability of news articles and reports.
* Fine-tuned on CNN/DailyMail dataset, ensuring concise & accurate summaries
* Optimized BART-base model for low resource usage for smooth on-device inferencing
* Applied quantization for better memory usage while retaining accuracy

**Sentiment Analyzer | PyTorch, Kaggle, NLTK, Word2Vec**

* Developed a sentiment analysis model, analyzing user emotions of social media on various topics, achieving over 83% accuracy
* Trained on the Sentiment140 dataset, using NLTK tokenization and Word2Vec vectorization for better semantic retention
* Optimized data pipeline to handle large-scale datasets efficiently

### **Technical Skills**

* **Programming Languages**: C++, Python, C, Java
* **Machine Learning & AI**: PyTorch, Transformers, TensorFlow Keras, Hugging Face, Kaggle
* **Natural Language Processing**: NLTK, BERT, Quantization
* **Computer Vision**: Torchvision, OpenCV, Mediapipe
* **Full-Stack Development:** Django, Flask, REST APIs, SQL, ReactJS, HTML5, CSS3
* **Data Analysis & Processing**: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn
* **Fundamentals**: Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA)
* **Development Tools**: Git, GitHub, Docker, VS Code, Google Colab, Neovim

### **Co-Curricular**

* Achieved N4 level proficiency in Japanese, demonstrating both conversational and writing abilities
* Solved 500+ questions in competitive programming over various platforms like CodeForces, LeetCode and AtCoder
* Co-authored several research papers on AI applications(e.g. SignSense) with my colleagues, reflecting collaboration and contributions to ML & NLP advancements

### **Certifications**

* NPTEL cloud computing, IIT Kharagpur – May 2024