# Dnyanesh Kavate

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### **Education**

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

*B. Tech, Department of Computer Science and Engineering CGPA: 8.36*

### **Experience**

**AI/ML Intern *March 2025 – May 2025***

*Cybtree Pvt. Ltd.*

* Contributed in creating an AI-driven ASM tool that monitored and flagged anomalous network activity for detecting potential cyber attacks
* Optimized dashboard for better data collection and analysis of network activity
* Learned about key concepts regarding cyber-security and how AI/ML solutions can be implemented to tackle increasing cyber threats

### **Projects**

[**Text summarization using BART and Llama**](https://github.com/codefever1912/Projects/blob/main/BART%20summarization/bart_summarizer.ipynb) **| PyTorch, Transformers, Llama-7b, HuggingFace**

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

[**Sentiment Analyzer**](https://www.kaggle.com/code/codefever1912/sentiment140) **| PyTorch, Word2Vec, NLTK, Kaggle**

* 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
* **Machine Learning & AI**: PyTorch, Transformers, TensorFlow, Keras, Hugging Face, NLP, Computer Vision
* **Data Analysis & Processing**: Pandas, NumPy, scikit-learn, Matplotlib
* **Development Tools**: Git, GitHub, Docker, VS Code, Google Colab, Neovim

### **Co-Curricular**

* Achieved N3 level proficiency in Japanese, demonstrating overall proficiency including reading, writing, and speaking
* Competitive Programming – solved 500+ questions on DSA
* Co-authored several research papers on AI applications, like Prescription for Privacy and SignSense, with my colleagues, reflecting collaboration and contributions to ML & NLP advancements