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 | 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 | 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