Dnyanesh Kavate

dnyaneshkavate@gmail.com | github.com/codefever1912 | +91 7722075515

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%*

Experience

AI/ML Intern — ***March 2025***
Cybtree Pvt. Ltd.

- Contributed in creating an AI-driven application 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

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. Prescription for Privacy) with my colleagues, reflecting collaboration and contributions to ML & NLP advancements

Certifications

- NPTEL cloud computing, IIT Kharagpur – May 2024