

HRUDUL KRISHNA K V

Computer Science & Engineering Student

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🌐 hrudulmmn

📄 Hrudul Krishna K V

SUMMARY

B.Tech Computer Science & Engineering student at TKM College of Engineering with a 9.75 CGPA, demonstrating strong proficiency in machine learning and full-stack development. Developed production-ready systems, including custom ML models achieving 89% accuracy and real-time gesture recognition applications. Actively seeking a Summer 2026 Software Engineering internship to contribute to the design and development of scalable, high-performance systems.

EDUCATION

TKM College of Engineering | 2024-2028

Bachelor of Technology – Computer Science & Engineering

Expected Graduation : May 2028 | CGPA : 9.75

Relevant Course Work: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Discrete Mathematics

PROJECT EXPERIENCE

Kara – Gesture-Based PDF Viewer with AI Summarization

Python, OpenCV, MediaPipe, PyMuPDF, Groq API, PyQt6 | Oct 2025 - Dec 2025

- Reduced false gesture triggers by ~70%, enabling reliable hands-free document navigation during study sessions
- Maintained ~60 FPS via multi-threaded gesture processing, delivering a smooth, distraction-free reading experience
- Implemented swipe navigation and pinch-based zoom, allowing users to navigate large PDFs without physical input devices
- Improved study efficiency and accessibility, particularly for long reading sessions and touch-free environments
- Github - <https://github.com/hrudulmmn/Kara>

Moodilist – Voice-Based Mood Detector & Playlist Player

Python, Scikit-learn, Librosa, FastAPI, React | Dec 2025 - Jan 2026

- Achieved 89% classification accuracy for 4-class emotion detection, enabling reliable mood recognition from short voice samples
- Stabilized predictions using sliding-window inference, improving real-world robustness
- Reduced overfitting by 25%, ensuring consistent performance across unseen user inputs
- Deployed a FastAPI + React application with <100 ms latency, providing instant mood-adaptive music recommendations
- Github - <https://github.com/hrudulmmn/Moodilist>

SKILLS

Languages: Python, C, JavaScript, SQL

Machine Learning: Scikit-learn, TensorFlow, Random Forest, SVM, Feature Engineering, Model Evaluation, Librosa (MFCCs)

Computer Vision: OpenCV, MediaPipe, Real-time Video Processing

Web & APIs: React.js, FastAPI, Node.js, HTML/CSS

Tools: Git, GitHub, Linux, VS Code, Jupyter, PyQt6

Core CS: Data Structures, Algorithms, OOP, Multithreading, System Design