

Mrudula Lawar

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SUMMARY

Third-year AI & Data Science student at VIIT, Pune, skilled in Machine Learning, NLP, and Generative AI. Experienced in developing AI agents, multimodal sentiment analysis, and data-driven prediction models. Seeking internships to apply AI/ML expertise in solving real-world problems.

SKILLS

Programming	Python, C++, SQL
ML & Deep Learning	Regression, Classification, Clustering, CNNs, RNNs, LSTMs, TensorFlow, Keras, PyTorch, Scikit-learn
NLP & AI	BERT, Transformers, Hugging Face, Agentic AI, LLMs, Web Scraping (Beautiful-Soup), NLTK
Data Science	Pandas, NumPy, Feature Engineering, EDA, Matplotlib, Seaborn, Power BI
Computer Vision	OpenCV, YOLO, Image Processing, Roboflow API
Tools	VS Code, Jupyter Notebook, Git/GitHub, Google Colab, Excel

PROJECTS

1. Multimodal Sentiment Analysis Pipeline	Tech: TensorFlow, Keras, PyTorch, OpenCV
Cross-modal AI system integrating CNNs (facial expressions), RNNs (speech tone), and BERT (text sentiment) for emotion recognition. Achieved 85% accuracy.	
2. Marathi Language Sentiment Analysis	Tech: BeautifulSoup, Pandas, Scikit-learn, NLTK
Developed NLP pipeline for sentiment analysis of Marathi social media comments using web scraping, preprocessing, and text classification.	
3. Image Compression using K-Means Clustering	Tech: OpenCV, NumPy, Scikit-learn
Implemented unsupervised learning for image compression by clustering pixel colors, reducing file size while maintaining visual quality.	
4. Smart Farm Security Surveillance	Tech: OpenCV, YOLO, IP Webcam
Real-time AI system detecting animals to protect crops using YOLO with IP Webcam integration for live monitoring and instant alerts.	

EDUCATION

2023 - 2027	B.Tech. in Artificial Intelligence and Data Science, VIIT, Pune	CGPA: 8.44
2021 - 2023	HSC, Maharashtra Board, B.R.K. Kanya Vidyalaya	92.80%
2021	SSC, Maharashtra Board, Mahale Podar College	68.50%

ACHIEVEMENTS

- Amravati National Hackathon 2025 – Top 10 position for Warehouse Space Optimization System with AI-driven inventory tracking
- Runner-up at Viz-a-Thon (Data Visualization Hackathon) – Built interactive dashboards with Power BI
- Event Management Associate, Artificial Intelligence Students Association (AiSA VIIT)