




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 (BeautifulSoup), 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)