

Vandana Yadav

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Summary

AI/ML-focused computer science professional with strong Python skills and hands-on experience across data preprocessing, feature engineering, model training, evaluation, and deployment. Experience with computer vision, classical machine learning, and deep learning using scikit-learn, PyTorch/TensorFlow, OpenCV, and MLOps tools (Git, Docker, MLflow).

Education

BIT Mesra, Ranchi , M.Tech. in Computer Science and Engineering (AI/ML)	2025 – 2027
KMC Language University , B.Tech. in Computer Science and Engineering (AI/ML)	2022 – 2025
Govt. Girls Polytechnic, Ballia UP , Diploma in Information Technology	2019 – 2022

Projects

Face Recognition System github.com

- Built a real-time face recognition pipeline in Python using OpenCV; implemented face detection, embedding generation, and identity matching for live video.
- Designed an end-to-end training/inference workflow (data collection, preprocessing, model fitting, and real-time prediction) with reusable modules.
- Tech stack: Python, OpenCV, Computer Vision, NumPy

SVM Model Using Python github.com

- Developed an SVM classifier using scikit-learn; built a complete ML pipeline including preprocessing, feature scaling, training, and validation.
- Evaluated performance using accuracy, precision, recall, F1-score, and confusion matrix; documented results for reproducibility.
- Tuned hyperparameters (kernel, C, gamma) using cross-validation to improve generalization and reduce overfitting.

News Portal Website github.com

- Built a dynamic news portal using Django with authentication/authorization, admin CMS workflows, CRUD operations, and category-based article routing.
- Implemented database models, migrations, and optimized queries on SQLite; improved maintainability with reusable templates and views.
- Tech stack: Python, Django, HTML/CSS, SQLite

Certifications

Machine Learning , Genisup	2024
Python , Bhém Digital	2023
Django , Techpile	2023
Java , Arcane	2017

Technical Skills

Languages: Python, SQL, C++

Libraries/Frameworks: NumPy, Pandas, scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Django, Flask, Streamlit

Tools: Jupyter, Google Colab, Git, GitHub, Docker, MLflow

ML/DL: Regression, Classification, Feature Engineering, Model Evaluation, Cross-Validation, CNN, RNN, LSTM, GANs, Transformers