

Maurya Pankaj

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SUMMARY

Final-year B.Tech student specializing in Artificial Intelligence and Machine Learning with strong skills in Python, Machine Learning, Deep Learning, and Computer Vision. Experienced in building end-to-end AI pipelines, working with real-world datasets, and developing deployable ML solutions. Actively seeking an entry-level AI/ML or Data Science role to apply technical knowledge and grow in an industry environment.

TECHNICAL SKILLS

Programming: Python (Primary), C

AI/ML Frameworks: PyTorch, TensorFlow/Keras, Scikit-learn, YOLOv8

Computer Vision: OpenCV, TorchVision

Data

Visualization: NumPy, Pandas, Matplotlib, Seaborn

Cloud

DevOps: AWS (EC2, S3, CloudWatch), Docker, MLflow

Tools: Git/GitHub, Linux, Google Colab

PROJECTS

AI-Based Forest Fire Detection

2024

Python, YOLOv8, Ultralytics, OpenCV, Deep Learning

GitHub

- Built a real-time forest fire detection system using YOLOv8 to classify fire and non-fire frames from video streams.
- Implemented complete video inference pipeline including preprocessing, confidence-based detection, and automated annotations.
- Achieved real-time inference performance of approximately 2–3 ms per frame with GPU acceleration.

Breast Cancer Detection Using Machine Learning

2024

Python, Scikit-learn, Pandas, NumPy

GitHub

- Developed a supervised ML model to classify breast tumors as benign or malignant using structured medical data.
- Performed data preprocessing, feature analysis, model training, and evaluation in Google Colab.
- Designed the system to support early-stage cancer diagnosis and data-driven healthcare decisions.

Cat and Dog Image Classification

2023

Python, TensorFlow, Keras, CNN

GitHub

- Designed a CNN-based image classification model to distinguish between cats and dogs.
- Applied data augmentation, Batch Normalization, Dropout, and learning-rate scheduling to improve generalization.
- Built a lightweight prediction utility for evaluating trained models.

EDUCATION

NIMS University

Rajasthan, India

B.Tech in Artificial Intelligence and Machine Learning

2022 – 2026 (Expected)

- CGPA: 7.38 (Completed 7 semesters, currently in 8th semester)
- Key Coursework: Artificial Intelligence, Machine Learning, NLP, Deep Learning, Data Analytics, Generative AI

CERTIFICATIONS

AI Foundation – Oracle (September 2025)

HackerRank Skill Certification – Python

KEY STRENGTHS

- Strong data-driven problem-solving and AI system design skills
- Experience with end-to-end AI pipelines from data preprocessing to model evaluation
- Ability to work effectively both independently and in collaborative team environments