

PRIYANSHU DIXIT

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PROFESSIONAL SUMMARY

Results-driven BCA student with hands-on experience in developing AI/ML applications, computer vision systems, and data-driven solutions. Proven expertise in Python programming, machine learning model training, and automation through academic projects and internships. Successfully built flood classification system using satellite data and real-time intruder detection system with computer vision. Strong technical foundation combined with practical problem-solving skills to deliver innovative solutions for complex challenges.

TECHNICAL SKILLS

Programming & Development: Python, Django Framework, Database Management Systems (DBMS)

AI/ML & Data Science: Machine Learning, Model Training & Testing, Data Analysis, Computer Vision

Specialized Technologies: Geospatial Data Processing, Satellite Data Analysis, Sensor Integration, Automation, Documentation

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Remote Sensing Application Centre, Uttar Pradesh

May 2025 – June 2025

- Engineered flood classification model processing satellite imagery and geospatial datasets including DEM, rainfall data, NDWI/MNDWI indices, and soil moisture metrics to accurately identify flood and non-flood zones
- Implemented machine learning algorithms achieving high accuracy in flood zone prediction by analyzing complex RSAC datasets and environmental parameters
- Automated end-to-end data pipeline for extraction, preprocessing, analysis, and visualization, reducing manual processing time and enabling rapid flood risk assessment for disaster management teams

Python Development Intern | NIELET, Lucknow

June 2024 – August 2024

- Developed GUI-based Budget Analyzer application using Python Tkinter framework, enabling users to track and analyze financial transactions with intuitive visual interface
- Applied fundamental AI concepts and machine learning techniques to solve real-world problems, demonstrating practical application of theoretical knowledge
- Gained hands-on Python programming expertise through intensive project-based learning, establishing strong foundation in software development best practices

ACADEMIC PROJECTS

Intruder Detection System

- Built comprehensive security system integrating camera feeds, motion sensors, and machine learning models for real-time human presence detection and tracking
- Implemented computer vision algorithms to identify and monitor unauthorized individuals with high precision and minimal false positives
- Developed automated logging system capturing and storing detection events, images, and video footage for security analysis and evidence documentation

Backpack and Trip Planner Web Application

- Designed and deployed full-stack web application using Django framework to streamline trip planning and backpack essentials management for travellers.
- Architected dual-module system with user interface for trip planning and admin dashboard for data management, utilizing SQLite database for efficient data storage and retrieval

EDUCATION

Bachelor of Computer Application (BCA)

Shri Ramswaroop Memorial College of Engineering and Management | August 2023 – August 2026 (Expected)