

Pratik Joshi

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[GitHub](#) | [LinkedIn](#)

OBJECTIVE

AI and Web Development Enthusiast, Seeking an opportunity to apply my technical skills and problem-solving abilities in a challenging environment

SKILLS

Technical skills
Soft Skills

Python, FastAPI, JavaScript, Nextjs, Reactjs, Nodejs, Tensorflow, Postgres, MongoDB
Communication, Project Management, Problem Solving, Teamwork

EDUCATION

Bachelor of Science in Computer Science with AI | Softwarica, Coventry University

Expected 2027

High School (+2 in Science) | Prasadi Academy

2021 - 2023

EXPERIENCE

Web and ML developer
FEED

Mar 2025 – Mar 2026

- Built XGBoost/Random Forest wildfire prediction model for Nepal using climate and fire data; deployed as web app (Next.js frontend, FastAPI backend) with admin panel for tracking predictions.
- Created landslide detection system with UNet CNN + OpenCV for image detection and Random Forest for classification.
- Designed full FEED website featuring research results, model outputs, and interactive visualization tools.

Research and Development Intern
FEED

Nov 2024 – Jan 2025

- Engineered automated weather data scraper, reducing processing time 60% and eliminating manual entry.
- Built user-friendly web platform for historical weather data access, with interactive visualizations for complex patterns and real-time Nepal mapping to enhance monitoring.

PROJECTS

Firewise, Wildfire Prediction and Monitoring System

- Gathered/processed Nepal climate and fire data.
- Trained XGBoost and Random Forest classifiers to predict wildfire risks.
- Developed/implemented Next.js + FastAPI-based web service and administrative dashboard to monitor/predict/compare in real-time.
- Technologies: Python, FastAPI, Next.js, Tailwind CSS, MySQL, XGBoost, Random Forest.

Landslide Detection and Prediction

- Constructed UNet CNN + OpenCV pipeline to detect landslides with satellite images.
- Built Random Forest landslide prediction model using nepal's datasets.
- Technologies: Python, OpenCV, TensorFlow/Keras, Random Forest, Next.js, FastAPI

FEED Website

- Developed the entirety of the site by using Next.js and FastAPI, including the admin panel and all features.

EXTRA-CURRICULAR ACTIVITIES

- **Hackathon Participation & Achievements:** Competed in several hackathons and also have won multiple hackathons (Kathmandu University – NepGeom).
- Participated in Robo Warriors League, Softwarica (2024 - 2025)