

Dhiroj Kumar Pandit

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Projects

Climate Change Impact Analysis – Nepal

- Collected and integrated multi-source environmental datasets (river discharge, flood data, land cover, climate data).
- Performed data preprocessing, normalization, temporal alignment, and validation.
- Conducted Exploratory Data Analysis (EDA) to identify trends and correlations.
- Built predictive models to analyze environmental impact patterns.

AgriFarm – Data-Driven Farming Assistant

- Designed a user-friendly system to assist farmers with fertilizer usage, seed planning, and crop schedules.
- Developed structured data management and visualization features.
- Focused on solving real agricultural challenges through data insights.

Modern Content Sharing Platform (Next.js + React)

- Built Apple-style modern UI/UX platform for uploading images, videos, songs, and stories.
- Implemented rating system and dynamic content display.
- Integrated frontend with backend using PHP and MySQL.

Automatic Fire Brigade Car (Arduino Project)

- Designed and implemented motor control using L298N driver.
- Integrated fire detection sensor with automated water pump system.
- Worked on hardware troubleshooting and circuit optimization.

SKILLS

Programming Language :
Python, C, JavaScript, PHP

Web Development:

React.js, Next.js, Tailwind
CSS, HTML, CSS

ML and Data Analysis:

Pandas, NumPy, Matplotlib, Linear Regression, Data Cleaning, EDA, Feature Engineering

Tools and Platform:

Git, GitHub, Linux (Kali), XAMPP, Arduino IDE, VS Code

EDUCATION

Radhika Secondary School, Urlabari
Secondary Education Level
Omdena AI course

ACHIEVEMENTS & ACTIVITIES

- GitHub Student Developer Pack recipient
- Completed Machine Learning coursework and practical implementations
- Active contributor to technical and development projects

LANGUAGES

English, Nepali, English