

Pawan Shrestha

Software Engineer

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 @ <https://github.com/PawanSths>  @ <https://www.linkedin.com/in/pawan-shrestha-a2972b363/>

Motivated engineering student with a strong interest in Artificial Intelligence and Machine Learning. I am currently building my skills in Python and data analysis. Having recently completed my college examinations and awaiting formal graduation, I am actively seeking opportunities to gain practical experience and contribute to real-world projects.

EXPERIENCE

Web Development Intern

Kathmandu

Aramex

May, 2025 - Oct, 2025

Developed and maintained parts of the company website, performed testing to identify issues, and provided suggestions to improve functionality and user experience. Collaborated with backend team on API integration

EDUCATION

Bachelor in Computer Engineering

Bhaktapur

Nepal Engineering College

Dec, 2021 - Mar, 2026

Core subjects: Computer Programming, DBMS, OS, DSA, Computer Network, AI

+2 Science

Bhaktapur

Khwopa College

Jul, 2019 - Apr, 2021

PROJECTS

Urban Sprawl Prediction Using UNet and ConvLSTM Models

Built U-Net/ConvLSTM model achieving 85% accuracy on satellite image classification across 3 cities; predicted urban sprawl with 78% precision for 2030 forecasts. Implemented data preprocessing pipeline using pandas and scikit-learn. Generated predictive visualizations for urban expansion patterns until 2030

<https://github.com/PawanSths/UrbanSprawlPrediction>

AI based Agents

Developed AI-based agents using Python, including goal-based and reflex-based models. Implemented logic for decision making and automated responses.

<https://github.com/PawanSths/AI-agents>

Machine Learning Fundamentals: Linear Regression & Perceptron Models

Implemented basic machine learning models, including linear regression and AND perceptron using Python.

<https://github.com/PawanSths/Perceptron>

AI Search and Optimization Algorithms: A*, KNN, and Hill Climbing

Implemented core AI algorithms such as A*, K-Nearest Neighbors (KNN), and hill-climbing using Python.

<https://github.com/PawanSths/AI-algorithms>

TRAINING/CERTIFICATIONS

Introduction to Python

2025

DataCamp

Learned Python fundamentals including variables, data types, loops, and basic problem-solving for data analysis and programming.

Intermediate Python

2025

DataCamp

Developed intermediate Python skills including functions, data structures, and working with libraries for data analysis and real-world applications.

Understanding LLMs and Retrieval-Augmented Generation (RAG)

2025

PDSC

Gained foundational knowledge of Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG), including concepts of AI-driven text generation and real-world applications.

SKILLS

Languages: Python, JavaScript, HTML/CSS, ML/AI: Machine Learning, Deep Learning, CNN, LSTM, Neural Networks, LLMs, RAG, Libraries & Tools: TensorFlow, scikit-learn, pandas, NumPy, Matplotlib, Jupyter, Git/GitHub

LANGUAGE

Nepali, English, Hindi

REFERENCES

Nikesh Thapa - *Manager*

Aramex

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