# Nabin Nepali

AI/ML Enthusiast

## Contact

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- Shankhamul, Kathmandu

## Soft Skills

- Leadership
- Brainstorming
- Quick learning and adaptability
- Languages:
  - Nepali (Fluent)
  - Hindi (Intermediate)
  - English (Intermediate)

## Technical Skills

- Programming & Libraries: Python, Pandas, NumPy, Matplotlib
- Machine Learning & Deep Learning: Time Series Analysis (ARIMA, SARIMA), LSTM, CNN, YOLO
- Web Development: React
- Automation & Workflow: n8n

## About Me

I'm an eager learner who's always exploring new technologies and expanding my skills. With a strong background in automation, machine learning, and technical documentation, I bring a process-driven and adaptable approach to solving problems and creating impactful AI solutions.

## Education

**Techspire College** — September 2023 - Present
- Affiliated with Asia Pacific University of Technology & Innovation (APU)
- Bachelor of Science in Information Technology (BSc.IT)
- CGPA: 3.48 / 4.0

**Tulsi Boarding Secondary School** — June 2021 - May 2023
- +2 Level
- GPA: 3.31 / 4.0

**Bright Pearl Academy** — May 2020- August 2021
- SEE
- GPA: 3.85 / 4.0

## Project

**Weapon Detection System** — November 2025
Developed a YOLO-based computer vision model to detect guns and knives from CCTV and mobile camera footage, enhancing real-time security monitoring and threat response.

**Smart Feedback Routing System** — October 2025
Developed an AI-powered workflow in n8n to classify feedback into complaints, compliments, and requests. Automated Slack routing, Airtable logging, and personalized email replies for seamless multi-platform engagement.

**Energy Consumption Forecasting** — July 2025
Built a SARIMAX model to forecast daily energy demand by incorporating weather variables, with thorough preprocessing including resampling, feature engineering, and validation of time series data.

**CNN (Cat vs. Dog Classification)** — June 2025
Developed a convolutional neural network in PyTorch with data augmentation for robust image classification, implementing model checkpointing and visualizing training metrics to monitor performance effectively.

## References

**Mr. Bibek Pancha**
Lecturer, Techspire College

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