

Nishan Bhurtel

AI/ML Engineer

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PROFESSIONAL SUMMARY

Passionate AI/ML Engineer with hands-on experience building data driven machine learning applications and intelligent systems. Proficient in Python, TensorFlow, PyTorch, Scikit-learn, and web frameworks including Django, Flask, and FastAPI. Proven track record of delivering production-ready ML solutions including a CNN-based plant disease detection system and a collaborative movie recommendation engine. Experienced in end-to-end model development, data preprocessing, exploratory data analysis, and cross-functional collaboration. Multiple hackathon award winner with a strong problem-solving mindset and a passion for applying AI to real-world challenges.

PROFESSIONAL EXPERIENCE

Junior ML Engineer | Skill Prompt

Jul 2024 – Feb 2025

- Applied data preprocessing and feature engineering techniques, improving model accuracy and reducing noise in training datasets.
- Built a reusable data pipeline for EDA and visualization using Pandas, NumPy, Matplotlib, and Seaborn, enabling faster iteration across projects.
- Integrated ML models into user-facing interfaces with proper error handling, loading states, and prediction output strategies.

Team Lead / ML developer | Hackathon & Project Teams

May 2025 – Dec 2025

- Led a cross-functional team of developers delivering an award-winning solution at Nepathon Vol. 1, a 48-hour national-level hackathon organized by Fusion Stack.
- Designed and shipped a user-friendly prediction interface, improving accessibility for farmers and driving real-world adoption of the solution.
- Integrated multiple data sources and third-party APIs into Smart Leaf, ensuring seamless frontend-backend connectivity and reliable prediction output.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python, Django, FastAPI
- **ML / DL:** TensorFlow, PyTorch, Scikit-learn
- **Data & Visualization:** NumPy, Pandas, Matplotlib, Seaborn
- **DB:** PostgreSQL, MySQL, MongoDB
- **Tools & Practices:** Git, GitHub, Streamlit, Feature Engineering, Model Evaluation, Performance Optimization

ACHIEVEMENTS & LEADERSHIP

- 1st Place – Nepathon Vol. 1 National Level Hackathon organized by Fusion Stack (October 2025)
- 1st Runner-Up – Arbit Tilotama Hackathon 2025 (September 2025)
- Provincial Qualifier – CodeFest 2025, Lumbini Province (November 2025)
- College Representative – Code For Change Community, coordinating tech events, workshops, and hackathons (2024 – 2025)

LANGUAGES

English (Fluent) • Nepali (Native) • Hindi (Conversational)