Avishek Dangol

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SUMMARY

Machine Learning Engineer with over five years' experience in web development, actively pursuing a master's degree in Artificial Intelligence with a group project on 'Skin Cancer Detection using CNN and Explainable AI'. Strong skills in backend frameworks like Laravel and Django, proficient in MySQL and PostgreSQL databases. Successfully managed web projects with timely delivery. Adept at collaborating with diverse teams to deliver innovative solutions. Eager to contribute to a forward-thinking company to achieve impactful results.

WORK EXPERIENCE

MSc. AI Group Research Project
UWE Bristol, Present

- Implemented a state-of-the-art Convolutional Neural Network (CNN) enhanced with Low-Rank Adaptation (LoRA) techniques to achieve robust skin cancer detection performance across diverse skin tones.
- Integrated Explainable AI (XAI) to enhance model transparency and provide interpretable insights into CNN decision-making process for clinical validation.
- Integrated Large Language Model (LLM) to translate XAI outputs for non-technical users.
- Developed two Python packages for streamlined model inference and for explainability workflows.

Project Manager, Senior Backend Developer
Tribhuvan University, Jan 2024 – Jul 2024

- Led a one-time web development project for the 6th annual conference of the Asian Population Association.
- Engaged with clients to ascertain their specific needs and developed Software Requirement Specification (SRS).
- Engineered server-side logic using Laravel, RESTful APIs, MySQL database and comprehensive test coverage.

Full Stack Web Developer
Global English Campus, Mar 2022 – May 2025

- Completed projects include learning management system, work management system and AI-IDE implementing GenAI.
- Backend development using Laravel, Node JS and Django, alongside databases including MySQL, PostgreSQL and Neo4J.
- Frontend development utilising JavaScript framework Vue JS.

Head of Operations (Voluntary)
GrassRootsWeb, Apr 2024 – Mar 2025

- Led a global network of volunteers to design impactful websites for charity organisations and small businesses.
- Oversaw day-to-day operations, ensuring seamless and efficient activity execution.
- Conceptualised innovative initiatives to enhance the volunteer experience

Web Developer
Autonomous Technology, Oct 2020 – Mar 2022

Volunteer
ICS Raleigh International, Jun 2019 – Sep 2019

EDUCATION & QUALIFICATIONS

MSc. Artificial Intelligence — 2025
UWE Bristol

PG Diploma in Computer Application — 2023
Kantipur City College

Bachelor's in Business Studies — 2019
Nepal Kasthamandap College

WORKSHOPS & CERTIFICATIONS

AI Engineer for Developers Associate — Jul 2025
DataCamp

AI Engineer for Data Scientist Associate — Jul 2025
DataCamp

Future Leadership Experience — Jun 2025
UWE Bristol, Common Purpose

Data Analysis on Vector-Borne Diseases — Jun 2025
Imperial College London, One-Health

SKILLS

Machine Learning: NLP, Semantic Search, Computer Vision, Explainable AI, Multi-agent Systems

Statistics: R, Data Analysis, Sampling Techniques, Time-Series Analysis, Geo-Spatial Analysis

Database Management: MySQL, PostgreSQL, MongoDB, Neo4J and Vector Databases

Full Stack Web Development including Laravel (PHP), Node JS, Python (Django) and Vue.js

Version Controlling with **Git** and **GitHub**