

Aayesha Nakarmi

AI Student and Developer

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📍 Kathmandu, Nepal

SUMMARY

I'm a final-year Computing with AI student at Islington and currently working as a Junior AI Developer at Danson Solutions Pvt. Ltd, gaining hands-on experience on tools empowering AI. I am eager to deepen my knowledge, explore innovative AI applications, and contribute to projects that solve real-world challenges.

WORK EXPERIENCE

Junior AI Developer, Danson Solutions Pvt. Ltd.

Nov 2024 - Present

- Developed Python-based backend APIs to power AI tools, including chatbots and generative AI
- Worked with LLMs, text-to-speech, and image generation models
- Crafted and refined prompts to optimize language model outputs for specific tasks

Python Intern, Verisk Nepal

July 2024-Oct 2024

- Fine-tuned Gemma models for domain-specific (medical) question answering tasks.
- Studied transformer-based LLM architectures and their real-world applications.
- Built and experimented with Retrieval-Augmented Generation (RAG) for enhancing QA performance.

EDUCATION

BSc (Hons) Computing with Artificial Intelligence

2022-Present (Final year)

Islington College, Kamalpokhari, Kathmandu

SLC (+2, Science)

2020-2022

KMC(Kathmandu Model College), Bagbazar, Kathmandu

SEE(Secondary Education Examination)

2020

Swarnim School, Dallu Aawas, Kathmandu

ADDITIONAL INFORMATION

- **Technical Skills:**
 - a. **Programming Languages:** Python (Django, Flask, FastAPI), Java EE
 - b. **Relational Databases:** MySQL, SQLite
 - c. **Fronend Development:** HTML, CSS, JS
 - d. **Machine Learning and AI:** LLMs, AI Algorithms, CNN, Transfer Learning
 - e. **Data Analysis:** Python (Pandas, NumPy, etc.), Power BI
- **Soft Skills:** Communication & Presentation skills, Problem-Solving, Adaptability, Time Management
- **Certifications:** AWS Academy Graduate - AWS Academy Cloud Foundations,

ACADEMIC AND PERSONAL PROJECTS

- **Quizard: AI-Powered Learning Assistant:**
 - Tech Stack: Python, HuggingFace Transformers (T5), PyTorch, Django, SQLite, HTML/CSS/JS
 - AI-powered web app that turns study materials (PDFs, Docs, PPTs) into quizzes, MCQs, and adaptive flashcards using fine-tuned T5 Transformers, Implemented retrieval practice and spaced repetition for active learning, feedback engine for quizzes and instant MCQ evaluation.
- **Dog Breed Classification System:** [AayeshaNakarmi/Dog-Breed-Detection-Tsinghua-CNN](#)
 - Tech Stack: PyTorch, Kaggle, CNNs, NumPy, Matplotlib
 - Developed a ResNet-style CNN from scratch for fine-grained classification of dog breeds using the Tsinghua Dogs dataset.
- **Song Popularity Prediction:** [AayeshaNakarmi/Song-Popularity-Prediction](#)
 - Developed a machine learning model to predict song popularity using MusicOSet Dataset on a scale of 0-100 and classify songs as "popular" or "not popular" using regression, classification, and ensemble techniques.
- **House Price Prediction:** [AayeshaNakarmi/House-Price-Prediction](#)
 - Developed a machine learning model to predict house prices in King County, USA, with feature engineering, using regression techniques and ensemble techniques.
- **AI Salary Analysis:** [AayeshaNakarmi/Salary-Analysis-in-AI-field](#)
 - Conducted salary analysis in the AI field using Pandas, NumPy, Matplotlib, and Seaborn. Prepared and cleaned data, performed statistical analysis, and presented findings in a detailed technical report.
- **Game Platform (Java EE):** [AayeshaNakarmi/GameRush](#)
 - Developed a Java EE-based game platform with CRUD operations for game management. Implemented features for user authentication, profile management, and game browsing.
- **Stationery Inventory Management (Java):** [AayeshaNakarmi/InkSpire-Stationery-Management](#)
 - Developed an application for managing stationery inventory, including CRUD operations, search functionality, and sorting using selection sort and binary search algorithms.
- **Carbon Footprint Calculator (LLM):** [AayeshaNakarmi/Squiward-AI-Crusade](#)
 - Created an AI-driven tool to estimate carbon emissions and provide reduction recommendations using Clarifai, Langchain, and Llama-2.
- **Smart Agriculture System (IoT):**
 - Tools and Tech: Arduino IDE, ThingSpeak, Fritzing, ESP32, DHT11, Ultrasonic sensor
 - Built an ESP32-based monitoring system to track environmental conditions, send data to ThingSpeak, and provide real-time alerts to users.