Diwas Shrestha

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Profile

I am a Msc Applied Data Science student and previously worked as a Machine Learning Engineer with experience in training and deploying machine learning models and developing AI solutions. My main experience lies working with Large Language Models, transformer based embedding models, and development with frameworks such as LangChain.

I describe myself as a curious knowledge driven person and am in constant pursuit of learning new things. I'm a quick learner and a hard-working person, and diligently accomplish my tasks. I also have great communication skills and a proven ability to collaborate effectively in diverse team environments.

Experience

2023/08 – 2024/07	**Machine Learning Engineer**
	Fusemachines
	• Worked on RAG (Retrieval Augumented Generation) based report generation tool that generates tabular reports of companies based on scraped data using OpenAI, LangChain, FAISS, and FastAPI.
	• Developed a RAG based document question answering system.
	- Tech Stack: OpenAI, open source embedding model, Weaviate vector database.
2023/04 – 2023/07 Kathmandu, Nepal	**Artificial Intelligence Intern**
	Fusemachines
	• Studied Generative models from Auto Encoders to GANs.
	• Learned the PyTorch Fundamentals, data loaders, and PyTorch pipeline.
2017/06 – 2018/04 Naikap, Kathmandu, Nepal	**Teacher**
	Golden Flower Garden School
	• *Taught computer science to students of secondary level.*
	• *Held lab sessions for the hands on experience with software as Paint, Word, Excel.*

Projects

Ecosystem
- Developed a system to generate tabular reports of companies about different fields using scraped data.
- Utilizes RAG architecture and Prompt engineering to output the answers in a csv format.
- Technologies used: Langchain, OpenAI, FAISS vectorstore, PostgreSQL, FastAPI.

Frost-GPT
- Document based question answering system using RAG architecture.
- Developed a chatbot to answer questions about the documents that are uploaded. The chatbot answers questions based on uploaded documents and provides the sources.
- Technologies used: OpenAI, UAE-Large-V1 Embedding model, Langchain, Weaviate Vector database, FastAPI, MongoDB.

Feature Selection for Binary Classification
- This was an Academic project studying the processes of feature selection for binary classification, classifying breast cancers.
- For comparing different sets of features against their efficiency and accuracy many Artificial Neural Networks (ANNs) were built

- Implemented feature extraction techniques such as Feature Ranking, Univariate Feature Selection, Recursive Feature Elimination

Dailygram

A news aggregator website
- Developed a web application where users can find easily access news in one platform.
- Added feature of interactivity with news such as commenting and reacting to news.

Education

2024/09 – Present Preston, UK	**Msc. Applied Data Science** *University of Central Lancashire*
2018 – 2023 Dhulikhel, Nepal	**Bachelor of Computer Science** *Kathmandu University* • CGPA: 3.4 • Datastructures, Algorithms and Complexity, Machine Learning, AI, Object Oriented & Dynamic Programming, Probability and Statistics, Linear Algebra, Software Engineering & Dependability.
2015 – 2017 Kathmandu, Nepal	**A Levels** *St. Xavier's College*

Skills

Programming Languages
Python

Deployment
Docker

Database
MySQL, PostgreSQL, MongoDB

Libraries
PyTorch, Tensorflow, Keras, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, HuggingFace

Version Control
Git, Github, Gitlab

Courses

ChatGPT Prompt Engineering For Developers - DeepLearning.AI

Leadership

Chess Coordinator for KUCC Cup 2022
- Organised the chess tournament, managed 20+ participants, matches and schedules.

Volunteering

2016/01 – 2017/01 Kathmandu, Nepal	**New Nepal Society Center Orphanage** • Mentoring children for school work
2015/05 – 2016/01 Kathmandu, Nepal	**(PiE) St. Xavier's College, Maitighar** • Worked as an tutor to high school student

Languages

- Nepali
- Hindi
- English

Hobbies

Hiking and Trekking, Movies, Swimming, Chess