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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 Artificial Intelligence Intern

Kathmandu, Nepal Fusemachines

Studied Generative models from Auto Encoders to GANs.

\*

\* Learned the PyTorch Fundamentals, data loaders, and PyTorch pipeline.

\*

2017/06 – 2018/04 Teacher

Naikap, Kathmandu, Golden Flower Garden School

Nepal 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 Msc. Applied Data Science

Preston, UK University of Central Lancashire

2018 – 2023 Bachelor of Computer Science

Dhulikhel, Nepal 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 A Levels

Kathmandu, Nepal St. Xavier's College

Skills

Programming Languages Libraries

Python PyTorch, Tensorflow, Keras, Scikit-Learn, Pandas,

NumPy, Matplotlib, Seaborn, HuggingFace

Deployment

Docker Version Control

Git, Github, Gitlab

Database

MySQL, PostgreSQL, MongoDB

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 New Nepal Society Center Orphanage

Kathmandu, Nepal Mentoring children for school work

\*

2015/05 – 2016/01 (PiE) St. Xavier's College, Maitighar

Kathmandu, Nepal Worked as an tutor to high school student

\*

Languages

Nepali Hindi English

Hobbies

Anime, Movies, Video Games, Swimming, Chess