Dishan Bhandari
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Professional Summary

Passionate Masters Student in Data Science with knowledge in Data Analysis, Statistics, Machine Learning, and Deep Learning technologies. Proficient in leveraging advanced tools like Python, SQL, R, and Power BI to transform complex datasets into actionable insights and build AI models tailored to solve real-world problems, driving innovation and operational efficiency.

Education

MSc. Data Science — Greenwich, London, UK
School of Computing and Mathematical Sciences, University of Greenwich — *2025–Present*

- **Distinction** (on track)

Bachelor of Computer Engineering — Pokhara, Gandaki, Nepal
School of Engineering, Pokhara University — *2019–2024*

- Graduated with **Upper Second-Class Honours**

Professional Registration — Nepal
Nepal Engineering Council

- **Licensed Computer Engineer** under the Nepal Engineering Council
- Verification: Verification Link

Experience

DataCamp Data Fellowship Program 2024/2025
DataCamp — *Oct 2024 - Dec 2025*

- Selected as a Data Fellow in a competitive program focused on advancing data analysis and professional skills development.
- Engaged in advanced coursework and hands-on projects, emphasizing data analysis, visualization, and applied data science techniques to solve real-world problems.

Ambassador – Global AI Hackathon (in collaboration with MIT Sloan AI & ML Club)
Global AI Hackathon — *Jul 2025 - Aug 2025*

- Selected as a national ambassador for the Global AI Hackathon, organized in partnership with the MIT Sloan Artificial Intelligence and Machine Learning Club. Responsible for driving engagement, promoting applications, and supporting participants across my country.

Skills

Programming Languages: Python, R
Version Control: Git, GitHub
ML and AI NumPy, Pandas, Scikit-learn, PyTorch, Keras, Tensorflow, Matplotlib, LangChain, LangGraph, LangSmith
Databases: SQL, Vector and Graph Databases
NLP: Transformers, LLMs, RAG
Deep Learning: Neural Networks (CNN, RNN)
Web Scraping: Scrapy
Web deployment: FastAPI, Streamlit, Gradio
Other Data related Tools Databricks, PowerBI, Excel

Projects

End-to-End-Semantic-Book-Recommender *Numpy, Pandas, Matplotlib, LLMs, Gradio* GitHub repo

- Designed and deployed a **full-stack book recommendation system** using **LangChain**, **Hugging Face**, and **Gradio**.
- Implemented **semantic search** via vector embeddings and **zero-shot classification** (BART model) to enhance content discovery by genre and tone.
- Performed **emotion-driven sentiment analysis** with a DistilRoBERTa model to personalize recommendations based on the user's emotional preference.
- Performed robust data cleaning, EDA and preprocessing to ensure model accuracy and eliminate bias.
- Delivered a user-centric interface enabling natural language queries, filtering by genre/emotion, and intelligent, LLM-based recommendations.
  Demo Video

PDF Chat Assistant using Agentic RAG *RAG, LangChain, LangGraph, LangSmith, Streamlit* GitHub repo

- Made an **AI chatbot assistant** that allows users to chat naturally while retaining context and memory, ask questions about a PDF paper(it can be a research paper or PDF related to laws or an academic material), also providing the functionality to generate summaries related to that PDF, all in a single interface.
- Used **LangChain** and **LangGraph** to orchestrate memory and tool-based flows. **LangSmith** for tracing tool calls, LLM prompts, and debugging.
- **Groq Llama3** for LLM responses and **FAISS** vector database to store embeddings and efficient semantic retrieval.
- **Streamlit** for front-end deployment.
  Demo Video

Attention Is All You Need *Python* GitHub repo

- Implemented the **Transformer** architecture from scratch as per the research paper. Tested to make an English to French Translation.

ICE Detention Facilities Analysis *R* GitHub repo

- Cleaned and Preprocessed a raw dataset containing basic information about detention facilities like names, locations, inspection dates, and average population levels holding immigrants in the United States. Identified and visualized the top 10 largest facilities by population

Certificates and Statement of Accomplishments

Machine Learning Engineer DataCamp
[Certificate]

Certified Data Analyst Associate DataCamp
[Certificate]

Neural Networks and Deep Learning DeepLearning.AI
[Certificate]