

# ANJAL BHATTARAI

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 [Github](#)

 Lokanthali, Bhaktapur

## SUMMARY

AI and software developer skilled in Python, scikit-learn, TensorFlow, and FastAPI, with experience in recommender systems, classification, and conversational AI using LangChain. Strong in data analysis, feature engineering, and deployment with Docker, with a focus on building ethical, transparent, and user-centric AI solutions for social impact.

**Career Objective:** To contribute my skills in machine learning, conversational AI, and software development toward building impactful, human-centered systems. I aim to design scalable AI solutions that improve accessibility, streamline decision-making, and empower communities, while upholding fairness, privacy, and sustainability. My long-term goal is to grow as an AI Engineer who applies cutting-edge research to create technologies that serve both organizations and society responsibly.

## EDUCATION

**BSc (Hons) Computing with Artificial Intelligence** | Islington College, London Metropolitan University, Kathmandu | 2024–Present

- *2nd-year student*, achieved ‘A-grade in all 5 first-year modules’.

**School Leaving Certificate (SLC)** | Ankuram Academy, NEB, Bharatpur, Chitwan | 2023

- *GPA: 3.71*

**Secondary Education Examination (SEE)** | Bhimsen Adarsha Secondary School, NEB, Devchuli, Nawalpur-East | 2021

- *GPA: 4.00*

## WORK EXPERIENCE

**Intern – Customer Success (CSR Department)**

ING Skill Academy | 15th September 2024 – Present

- Strengthened ability to translate technical features into user-friendly explanations.
- *Developed communication and client-handling skills by engaging with 1000+ potential customers*
- Provided detailed information on product experiences, highlighting features, benefits, and unique selling points (*USPs*)

## SKILLS

**Programming & Development:** Java, Python, JavaScript (basic)

**Web & API Development:** HTML, CSS, FastAPI, RESTful API development

**Databases:** MySQL, Oracle foundation, SQL

**Libraries & Frameworks:** NumPy, pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, LangChain

**Machine Learning & AI:** EDA, Feature Engineering, ML Algorithms, Deep Learning (ANN, CNN, RNN, LSTMs, GRU, Transformers), Optimizers, Activation Functions, Loss Functions

**DevOps & Automation:** Docker, n8n

**Tools:** Git, GitHub, ClickUp, Render, powerbi, Excel

**Mathematics:** Linear Algebra, Calculus, Probability, Statistics

**Soft Skills:** Customer communication, problem-solving, quick learning, collaboration, documentation

## Projects

### AskMyPDF | [ Python, Streamlit, LangChain, ChromaDB, Google Generative AI ]

- Developed a *RAG application* allowing users to chat with uploaded PDFs and get precise, context-aware answers.
- Implemented a multi-stage NLP pipeline with *PDF ingestion, embeddings (GoogleGenerativeAIEmbeddings), vector search (ChromaDB), and response generation (Gemini LLM)*.
- Built and deployed an interactive Streamlit interface, demonstrating skills in *NLP, vector databases, LLM orchestration, and cloud deployment*.

### Movie Recommender System | [ Python, Streamlit, scikit-learn, pandas, TMDB API ]

- Developed a *content-based movie recommender* returning top 5 similar movies using *CountVectorizer* and *cosine similarity* on TMDB metadata.
- Built an *interactive Streamlit UI* for movie selection with poster display; persisted precomputed model artifacts for fast inference.
- Deployed online, delivering recommendations, showcasing skills in, *data preprocessing, NLP feature engineering, and web deployment*.

### Patient Management System | [ Python, FastAPI, Pydantic, Uvicorn, JSON ]

- Developed a RESTful API for managing patient records with *schema validation and automatic BMI/verdict computation*.
- Implemented full CRUD endpoints, *search/sort functionality*, and file-based JSON persistence.
- Delivered a working prototype with 7+ endpoints, demonstrating skills in *FastAPI, Pydantic computed fields, API design, and error/IO handling*.

### Fashion Recommender System | [ Python, FastAPI, Streamlit, VGG16 ]

- Developed a *content-based image retrieval system* for fashion item recommendations using VGG16 embeddings for feature extraction. <Can be fine-tuned as well in future work>
- Built a *FastAPI backend* and *Streamlit frontend* for *local image upload* and recommendation retrieval.
- Implemented modular embedding generation and inference pipeline, demonstrating skills in deep learning feature extraction, API development, and interactive web deployment.

## Email Spam Classifier | [ Python, scikit-learn, Render ]

- Developed a *ML web application* to classify emails as spam or legitimate using NLP preprocessing and a pre-trained model.
- Implemented end-to-end pipeline for text preprocessing, model inference, and real-time predictions via a user-friendly web interface.
- Deployed backend on Render, demonstrating skills in *text classification, model integration, deployment, and UX-focused design*.

## Training and certification

- A. **Global Professional Pathway Course** – Learned fundamentals of *Power BI* and data visualization.
- B. **Summer Enrichment Class** – Gained hands-on experience with *Version Control Systems*.
- C. **AWS Academy** - [AWS Academy Cloud Foundations](#) : Introduction to AWS Cloud Computing.
- D. **LinkedIn Learning**
  - Java Object-Oriented Programming :- Learned OOP principles and design.  
Certificate ID:  
b37247faf8f4880bcf26a9db09ee075d26dceef123d5cb53779cf0626e537dd2
  - *Git & GitHub* :- Version control, branching, and collaboration best practices.  
Certificate ID:  
2e471f8174980eeb66d116453e33b5371e2f919014f4b647fd1311ac7973b62a