

Laxman Sharma

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Professional Summary

Built and deployed EDUHUB Global Education Portal, a live Django platform helping students find universities and scholarships with a responsive, user-friendly design. Created BHASABODH, an AI chatbot for Romanized-to-Devanagari translation using fine-tuned BLOOM/BERT models and FastAPI. Passionate about using software engineering and AI/ML to build real-world, user-focused applications.

Education

Sunway College Kathmandu *Graduated March 2025*
Bachelor of Computer Science (Honours)

Work Experience

AI/ML Engineering Intern *Kathmandu, Nepal*
Esewa Ltd - Nepal's Leading Digital Wallet Platform *Nov 2024 - Mar 2025*

- Worked on BHASABODH, a translation model and chatbot project aimed at translating Romanized Nepali to Devanagari Nepali using custom fine-tuned language models
- Contributed to training, fine-tuning, and evaluating transformer-based NLP models (e.g., BLOOM, BERT variants)
- Implemented BLEU score evaluation, data cleaning pipelines, and model optimization techniques for inference efficiency
- Integrated the chatbot into a FastAPI web interface for interactive translation with frontend using Tailwind CSS
- Collaborated with the R&D team to test model performance and improve real-time translation accuracy

Data Engineering Intern *Kathmandu, Nepal*
Dlytica Inc. Pvt. Ltd *Jul 2024 - Nov 2024*

- Completed a comprehensive data engineering course covering data pipelines, ETL processes, data warehousing, and big data technologies
- Gained hands-on experience with cloud platforms, database management, and real-time data processing
- Worked with Apache Airflow for workflow automation and MinIO for object storage
- Developed and implemented DAGs for workflow automation and executed ETL pipelines for data processing

Projects

EDUHUB Global Education Portal [LIVE] *Live: eduhubuniversalserver-vices.com ↗*

- Designed, developed, and deployed a fully functional Django-based education portal from scratch
- Configured and hosted the project on Nest Nepal VPS using cPanel, ensuring secure and reliable uptime
- Set up PostgreSQL database and production server with Nginx and Uvicorn for smooth performance
- Built responsive, mobile-first UI and optimized page speed for better user experience
- Performed SEO optimization and metadata tuning to improve search engine visibility and ranking
- Technologies: Python, Django 4.2, PostgreSQL, HTML/CSS, VPS (Nest Nepal), Nginx, Uvicorn, SEO



- Developed a bidirectional translation model for Devanagari to Romanized Nepali and vice versa using transformer-based architecture
- Built an intelligent QA chatbot with natural language understanding capabilities
- Implemented custom fine-tuned language models (BLOOM, BERT variants) for improved translation accuracy
- Created FastAPI web interface with Tailwind CSS for interactive user experience
- Integrated BLEU score evaluation metrics and data cleaning pipelines for model performance optimization

Ecommerce Product Aggregator[GitHub Repository](#)

- Built a comprehensive e-commerce platform with product listing, user management, and analytics
- Implemented features including product search, detailed product pages, historical price trends, and user registration/authentication
- Technologies: Django, Tailwind CSS, PostgreSQL

Social Media Platform - Full-Stack Application[GitHub Repository](#)

- Developed a full-featured social media platform with user authentication, post creation, and social interactions
- Implemented features including user registration, login/logout, image or status posting, comments, likes/unlikes, and follow/unfollow functionality
- Technologies: Django, Tailwind CSS, SQLite

Web Scraping Tools[GitHub Repository](#)

- Map Scraper: Automated search and navigation with data extraction, scrolling, and pagination handling
- Amazon Scraper: Automated product searching and detail extraction from Amazon search results
- Technologies: Python, Selenium, Requests

Data Engineering Pipeline[GitHub Repository](#)

- Developed and executed ETL pipelines with Apache Airflow, integrating MinIO for storage and workflow automation
- Technologies: Apache Airflow, MinIO, Python, Docker

Flutter-Firebase Blog Application[GitHub Repository](#)

- Built a Flutter blog app with Firebase Authentication and Firestore for real-time post management
- Technologies: Flutter, Firebase Authentication, Firestore

Technical Skills**Languages:** Python (Advanced), Java, JavaScript, TypeScript, SQL, HTML5, CSS3**AI/ML & Data:** PyTorch, TensorFlow, Transformers, BERT/BLOOM, scikit-learn, pandas, NumPy, Apache Airflow, Spark**Web Development:** Django, FastAPI, Flask, React, Node.js, REST APIs, GraphQL, WebSockets**Databases & Cloud:** PostgreSQL, MySQL, MongoDB, Redis, Firebase, AWS (EC2, S3), Docker, Kubernetes**Tools & DevOps:** Git, CI/CD, Linux, Nginx, Selenium, Postman, JIRA, Agile/Scrum