

# Dikshanta Chapagain

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## EDUCATION

### Softwarica College of IT and E-Commerce (Coventry University)

Kathmandu, Nepal

Bachelor of Science (Hons) in Computer Science with Artificial Intelligence

Expected 2025

- Pioneering student in inaugural AI program at Softwarica College
- Relevant coursework: Machine Learning, Natural Language Processing, Data Structures

## PROFESSIONAL EXPERIENCE

### Web Developer

July 2024 – January 2025

Keywi Marketers

Lazimpat, Kathmandu

- Developed and maintained 10+ responsive websites using JavaScript, Node.js, and Tailwind CSS
- Implemented SEO best practices, improving client website traffic by 35% on average
- Reduced website load times by 40% through performance optimization techniques
- Collaborated with cross-functional teams to deliver projects 15% ahead of schedule

## TECHNICAL PROJECTS

### Tripo - Real-time Travel Navigation Platform (Ongoing)

March 2025 – Present

- Developing scalable backend architecture using FastAPI and WebSockets for real-time communication
- Currently implementing Geoapify API integration for dynamic route optimization
- Designing PostgreSQL database schema to handle location data and user interactions
- Setting up CI/CD pipeline for automated testing and deployment

### AI Chatbot with FastAPI (Ongoing)

April 2025 – Present

- Building high-performance API endpoints for conversational AI using FastAPI
- Currently integrating Llama 3.1-8B model via Groq API
- Implementing authentication system and rate limiting for API security
- Developing comprehensive documentation and testing suite

### Palmer Penguins Classifier Deployment

March 2025 – April 2025

- Successfully deployed the Palmer Penguins classification model using FastAPI
- Achieved consistent 98% accuracy matching local test results in production
- Implemented model versioning and performance monitoring system
- Containerized application using Docker for cross-environment deployment

### Code Sika Learning Platform

December 2024 – February 2025

- Developed Java-based desktop application for programming education
- Implemented SQLite database with user progress tracking features
- Designed Swing-based UI that reduced onboarding time by 30%
- Supported three programming languages with interactive coding exercises

## TECHNICAL SKILLS

**Programming Languages:** Python (Advanced), Java (Intermediate), JavaScript (Intermediate), SQL (Intermediate), C# (Basic)

**Web Technologies:** FastAPI, React.js, Next.js, Node.js, Tailwind CSS, REST APIs, WebSockets

**Artificial Intelligence:** NLP, Transformers, Scikit-learn, Pandas, Model Deployment

**Databases:** PostgreSQL, SQLite, Database Design, Query Optimization

**Tools & Platforms:** Git, Docker, Vercel, Postman, CI/CD Pipelines, Linux

**Soft Skills:** Problem Solving, Team Collaboration, Agile Development, Technical Documentation