

Dikshanta Chapagain

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<https://da-dikshanta.vercel.app/>

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

March 2025

- 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

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
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DaktarSaab – Healthcare Assistant Android App

June 2025 – Aug 2025

- Developed a full-featured Android application in Kotlin to assist patients with healthcare needs
 - Implemented Firebase Authentication for secure login and signup
 - Built a Dashboard Activity for smooth navigation and feature access
 - Integrated Google Maps API to locate nearby hospitals and pharmacies
 - Designed and deployed an AI-powered chatbot with voice interaction for instant patient support
 - Delivered a production-ready healthcare assistant app with scalable architecture
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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
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Tuberculosis X-Ray Prediction API – Deep Learning & FastAPI

May 2025 – July 2025

- Built a Convolutional Neural Network (CNN) in PyTorch to detect Tuberculosis from chest X-ray images
 - Designed a FastAPI-based REST API to serve real-time predictions with a user-friendly HTML/CSS/JS frontend
 - Implemented image upload functionality where users can submit X-rays and instantly receive Normal/TB Positive results
 - Trained and evaluated the model using accuracy, confusion matrix, precision, recall, and F1-score
 - Delivered an end-to-end system combining deep learning, backend APIs, and frontend integration
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FuturePathFinder – Career Recommendation System

July 2025 – August 2025

- Developed a Random Forest Classifier to analyze student data and recommend potential career paths
- Performed data cleaning, feature engineering, and visualization (feature importance, heatmaps, pairplots)
- Built an interactive FastAPI web app with a modern HTML/CSS/JS frontend for real-time predictions
- Trained and deployed the model (random_forest_model.pkl) with support for scalable inference
- Delivered an end-to-end ML pipeline combining data preprocessing, model training, and deployment

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