

# UNISHA CHAULAGAIN

Python Developer · Django Developer · Full Stack Developer

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## PROFESSIONAL SUMMARY

Computer Engineering final-year graduate candidate from Himalaya College of Engineering (IOE, Tribhuvan University) with hands-on experience in Python, Django, Django REST Framework, and full-stack web development. Skilled in building scalable backend systems, RESTful APIs, Django ORM-driven database applications, and modern responsive web platforms. Experienced delivering real-world projects including a real-time emergency health platform, multilingual AI complaint system, and tour booking backend. Comfortable with PostgreSQL, SQLite, Git/GitHub, frontend integration (HTML, CSS, JS, TailwindCSS), Postman API testing, and collaborative software development.

## TECHNICAL SKILLS

**Backend:** Python · Django · Django REST Framework · REST APIs · JSON APIs · Authentication & Authorization

**Frontend:** HTML5 · CSS3 · JavaScript · TailwindCSS · Django Templating Engine

**Databases:** PostgreSQL · SQLite · MongoDB · Firebase

**Tools:** Git · GitHub · VS Code · Postman · Jupyter Notebook · Google Colab

**AI / ML:** TensorFlow · PyTorch · scikit-learn · HuggingFace · DistilBERT · NLP · RAG Systems

## EDUCATION

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### Bachelor of Engineering in Computer Engineering

Himalaya College of Engineering, Kathmandu · Affiliated with IOE, Tribhuvan University

2022 – 2026 · *Completed Final Year · Awaiting Final Results*

Relevant Coursework: Data Structures & Algorithms · Database Management Systems · Software Engineering · Computer Networks · Artificial Intelligence · Machine Learning

## PROJECTS

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### ★ Smart Health Emergency Assistance | Django · Python · Firebase · JavaScript · Haversine Algorithm

*Minor Project · Solo End-to-End Build*

GitHub: [github.com/Unisha0/Smart-Health](https://github.com/Unisha0/Smart-Health)

- Designed and built a full-stack real-time emergency response platform connecting patients, ambulances, and hospitals — handling the complete request lifecycle from submission to resolution
- Implemented intelligent nearest-hospital routing using the Haversine formula with live Firebase location tracking and real-time data synchronization across user roles
- Built complete hospital dashboard with accept/reject workflows, status tracking, and SMTP email notification system — delivered as a solo end-to-end Django project
- Managed structured real-time data flow, timeout handling, and status validation across multiple user roles (patient, ambulance, hospital admin)

### ★ Civic Complaint Classification System — CivicConnect | Django · DRF · DistilBERT · NLP · Flutter

*Major Project · 99.8% Accuracy*

GitHub: [github.com/Unisha0/CIVICCOMPLAINT](https://github.com/Unisha0/CIVICCOMPLAINT)

- Fine-tuned DistilBERT (HuggingFace) to classify multilingual citizen complaints (English + Nepali) across categories — road, water, electricity, sanitation — achieving 99.8% accuracy and ~0.998 weighted F1
- Built a Django REST Framework backend integrating ML inference, user authentication, authority routing, and full complaint lifecycle management

- Designed structured JSON output with routing logic to direct complaints to correct government departments; handled full ML pipeline end-to-end from data generation to production API
- Developed a Flutter mobile app (iOS/Android) for citizens to submit complaints and track resolution status in real time

### **Tour Booking System** | Django · PostgreSQL · Django ORM · JavaScript

GitHub: [github.com/Unisha0/tour-booking-system-](https://github.com/Unisha0/tour-booking-system)

- Built a complete Django-based tour booking application with user authentication, role-based access control, and admin dashboard
- Implemented booking workflows and database-driven backend using Django ORM and PostgreSQL with REST API and structured JSON responses
- Developed responsive frontend pages with HTML, CSS, and JavaScript integrated with Django Templating Engine

### **AI/ML Training — 10 Projects Collection** | Python · TensorFlow · PyTorch · scikit-learn · Django · Streamlit

GitHub: [github.com/Unisha0/AI training with 10 projects](https://github.com/Unisha0/AI_training_with_10_projects)

- 10 complete end-to-end AI/ML projects covering classification, NLP, deep learning, and generative models — each built with Python and served via Django or Streamlit web interface
- Includes CNN image classifier (98%+ accuracy on MNIST), RAG chatbot, NL-to-SQL Talk-to-Database app, and fine-tuned GPT-2 + FAISS retrieval pipeline
- Demonstrates full ML lifecycle across every project: data collection, preprocessing, model building, evaluation (precision/recall/F1), and structured result logging

### **TrendCrafters Global Business Platform** | Django · Python · TailwindCSS · REST API

GitHub: [github.com/Unisha0/trendcrafters](https://github.com/Unisha0/trendcrafters)

- Developed and maintained a full-stack Django web platform for a real business client with dynamic database operations and admin management
- Built and integrated RESTful APIs using Django REST Framework with structured JSON responses, form validation, and error handling
- Designed responsive frontend with TailwindCSS and Django Templating Engine; handled debugging, performance optimization, and deployment

### **Personal Portfolio Website** | Next.js · TailwindCSS · Animated UI (In Progress)

GitHub: [github.com/Unisha0/portfolio](https://github.com/Unisha0/portfolio)

- Building a fully animated, graphically rich personal portfolio to showcase Django and AI/ML projects — currently in active development

## **CERTIFICATIONS & ACHIEVEMENTS**

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- Multiple certifications in Python, Machine Learning, Web Development, and AI/ML — see [LinkedIn](#)
- Built and deployed TrendCraftersGlobal.com — a complete full-stack business platform from scratch using Django
- Active open-source GitHub portfolio with 6+ complete Django, AI/ML, and full-stack projects: [github.com/Unisha0](https://github.com/Unisha0)

## **SOFT SKILLS**

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- Vibe coding mindset — fast at picking up new tools, frameworks, and workflows and getting things shipped
- Confident communicator and collaborative team player; comfortable working independently or in fast-paced team environments
- Quick learner — adapts rapidly to new technologies, libraries, and project requirements
- Strong debugging and analytical problem-solving skills; experienced with clean code structure and API design

## **INTERESTS**

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Travelling · Exploring new places & cultures · Adventure & outdoor experiences · Technology & AI research