

NISHANT SUBEDI

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PROFESSIONAL SUMMARY

Independent, technically focused IT student with a Computer Engineering background and hands-on experience in machine learning, software development, automation, web systems, Linux, and multimedia tooling. Builds complete projects on his own, from data collection and model development through APIs, frontend interfaces, and deployment. Interested in technical accuracy, structured problem solving, and improving the reliability of AI-assisted work.

EDUCATION

Cyprus International University — Lefkosa, North Cyprus

Bachelor of Information Technology | 2025–Expected 2029 | Current: 3rd semester

Kathford International College of Engineering and Management — Nepal

Computer Engineering | 2022–2025 | Approx. 2.5 years of coursework completed

Top capstone project recognition for a C/GTK-based Bus Ticket Management System.

Greenland Secondary School — Nepal

High School Diploma, Science | 2020–2022

MACHINE LEARNING & AI

Global ML Bootcamp 3 — Frontier Tech Leaders Programme | 2024

2.5-month machine learning program run under the Frontier Tech Leaders Programme, a joint initiative involving the UNDP Istanbul International Center for Private Sector in Development (UNDP ICPSD), SDG AI Lab, and the UN Technology Bank for Least Developed Countries.

- Capstone project: Crop Yield Prediction System, an end-to-end machine learning web application.
- Combined multiple agricultural data sources covering 120+ countries to build the model inputs.
- Processed and optimized data with Pandas; used Matplotlib for data inspection and analysis.
- Built predictive models with TensorFlow and Keras.
- Developed the Django/FastAPI backend and a browser-based frontend using HTML, CSS, and JavaScript.
- Designed the interface so users select a country/region, prediction year, and land area to receive an estimated yield.
- Independently handled the architecture, data pipeline, model, backend, frontend, and deployment.
- Deployed a working version on Render.
- Recognized with first place (highest project evaluation) within the bootcamp.

PROJECTS

Crop Yield Prediction System

Stack: Python, TensorFlow, Keras, Django, FastAPI, Pandas, Matplotlib, HTML, CSS, JavaScript

Web application that estimates crop yield from historical agricultural data, geographic region, prediction year, and land area. Developed end-to-end independently and deployed publicly for testing.

Bus Ticket Management System

Stack: C, GTK 3, File Handling, basic encryption

- Team capstone project; independently completed the entire programming implementation.
- Built a persistent multi-file storage system for user accounts, bookings, and application state.
- Implemented basic encryption for stored data.
- Developed separate admin, user, and agent interfaces with role-specific functionality.
- Implemented ticket booking and management.
- Generated a visual bus layout showing seat location and characteristics such as window seating.
- Built entirely within the restricted C facilities permitted by the course.

FFmpeg Android App

Stack: Android, Kotlin, FFmpegKit, Gradle | 2026

- Open-source Android application, built independently, integrating FFmpeg through FFmpegKit.

- Provides a command-driven interface for running FFmpeg operations directly on Android.
- Source code available on GitHub: github.com/nishantsubedi3/ffmpeg-android-app

Independent Automation & Data Processing

- Built numerous private automation tools to eliminate repetitive tasks and streamline personal workflows.
- Developed metadata extraction and data-processing utilities for multiple web platforms.
- Built custom scrapers and utilities for structured information extraction.
- Wrote command-line wrappers and tooling around existing software and web services.
- Routinely turn repetitive multi-step workflows into one-command or one-click processes.

PROFESSIONAL EXPERIENCE

Sismar Market — Lefkosa, North Cyprus | Customer Attendant

Full-time, approximately 2 months | 5 PM–3 AM shifts

- Assisted customers with locating products and navigating the store.
- Monitored the store floor and helped identify potential shoplifting.
- Supported managers and cashiers during POS system failures and interruptions.
- Worked independently on late shifts, handling both customer-facing and operational issues.

TECHNICAL RESEARCH & AI-ASSISTED PROBLEM SOLVING

- Use AI tools to support technical research, debugging, code review, and problem-solving across programming and software development tasks.
- Develop and refine prompts to improve instruction clarity, output accuracy, and consistency.
- Compare AI-generated responses across models to assess their reasoning, factual accuracy, relevance, and practical usefulness.
- Verify technical claims and references through independent research rather than relying solely on generated responses.
- Identify ambiguity and logical errors in generated code and explanations, using testing and technical knowledge to assess proposed solutions.
- Apply structured reasoning to break down unfamiliar problems, investigate possible solutions, and validate results independently.

TECHNICAL SKILLS

Programming	Python, JavaScript, C/C++, HTML, CSS
AI / ML	TensorFlow, Keras, model development, data preprocessing, prediction systems
Data	Pandas, Matplotlib, structured data processing and analysis
Backend / Web	Django, FastAPI, Node.js, REST APIs
Multimedia	FFmpeg, FFmpegKit
Systems	Linux (daily driver; Arch, Debian), Windows, command-line workflows
Version Control	Git, GitHub
Development	VS Code, Code::Blocks, Kate, Vim, Nano

LANGUAGES

Nepali: Native **Hindi:** Fluent **Urdu:** Fluent **English:** Fluent

ADDITIONAL INFORMATION

Available for remote work, approximately 20–25 hours per week. Comfortable working independently. Based in Lefkosa, North Cyprus.