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PROFESSIONAL SUMMARY

AI/ML developer with hands-on experience building and deploying production-grade machine learning systems spanning clinical NLP, time series forecasting, and data analysis. Proficient in Python, FastAPI, PyTorch, and the HuggingFace ecosystem. Experienced integrating ML microservices with full-stack web backends. Strong Linux foundation with 9+ years of daily use. Available for remote work across any timezone.

TECHNICAL SKILLS

- **ML & AI:** PyTorch, Scikit-learn, WhisperX, LangChain, HuggingFace (Inference API, LLaMA 3.1), LSTM, SARIMAX, Pandas, NumPy, Matplotlib
- **Backend & APIs:** FastAPI, Python, Ruby on Rails, PostgreSQL, REST APIs, Pydantic
- **Tools & Workflow:** Git, GitHub, Docker, Linux CLI (9+ years, Mint, Arch, Ubuntu, Debian), Vim, Shell Scripting
- **Familiar With:** Power BI, JavaScript, MongoDB, TypeScript

WORK EXPERIENCE

AI & ML Club President

Presidential Graduate School, Nepal | Oct 2023-Mar 2025 | Part-time

- Led a student technology club over 18 months, organising and delivering technical sessions on Python, machine learning, and AI concepts to peers.
- Designed and ran a structured learning program covering ML fundamentals, model building, and practical Python applications.

Ruby on Rails Trainee

Bajra Technologies, Nepal | Mar-June 2025 | Internship · Full-time

- Designed and developed FixMate, a production-level Rails application connecting homeowners with local service providers, featuring role-based authentication (Devise), client/provider dashboards, booking system, availability management, review system, and admin tools via RailsAdmin.
- Implemented background job handling using ActiveJob and Sidekiq, file uploads with ActiveStorage, real-time features with ActionCable, and transactional email with ActionMailer.
- Built proficiency in Linux CLI, MVC architecture, ActiveRecord associations, and version control across a structured 12-week program.

Software Engineer Intern

Skillrank, Remote | Jan 2025 | Internship · Part-time

- Completed training in frontend and backend development using JavaScript, TypeScript, Tailwind CSS, Python, and MongoDB.

Data Analyst Intern

Mentorness, Remote | Apr 2024 | Internship · Part-time

- Performed statistical data analysis and built visualisations using Power BI and Python (Pandas, Matplotlib).
- Completed two project-based analyses: Netflix movie duration trends and NYC public school test score rankings.

IT Support Supervisor

Lekhasuchi (Under Shree Antu Industries), Nepal | Dec 2022 – Mar 2023 | Full-time

- Provided on-site technical support and acted as liaison between clients and the development team.

EDUCATION

Bachelor of Information Technology | 2022 - 2026

Westcliff University (Presidential Graduate School), Kathmandu, Nepal

CERTIFICATIONS

- Introduction to SQL — DataCamp, Apr 2024
- Python Data Structures — Coursera, Oct 2024
- Python on the Backend — Udemy, Jan 2025
- Linux Fundamentals — Coursera, Jan 2022
- Introduction to Cybersecurity — Cisco, Mar 2024
- Networking (Routing & Switching) — Presidential Graduate School, Jan 2023

PROJECTS

Nepscribe | Final Year Group Project

An AI-powered clinical documentation tool designed to automate the generation of structured SOAP notes from doctor-patient conversations.

- Created an automated ML system that converts medical consultation audio into structured SOAP notes, addressing critical administrative burnout for healthcare professionals.
- Created a decoupled system using a FastAPI microservice and Rails backend, allowing heavy machine-learning audio processing to run asynchronously without blocking the UI.
- Designed an intuitive, dynamic interface that seamlessly synchronizes audio playback with AI-generated, diarized transcripts to modernize how users review complex session data.

Remit-Smart | Solo Capstone Project

An exchange rate prediction system that helps users make decision of the best send time.

- Developed Remit-Smart, a targeted web application that empowers migrant workers abroad to optimize and maximize the remittances they send home, directly addressing global financial inefficiencies.
- Designed a resilient, data-driven microservices architecture using Docker Compose, successfully developing a Ruby on Rails Backend-for-Frontend (BFF) alongside a dedicated FastAPI service for specialized machine-learning data processing.
- Creatively structured a seamless integration between isolated backend services (Rails, FastAPI) and a PostgreSQL database by separating concerns, ensuring the platform remains highly scalable, secure, and ready for advanced financial prediction models.

FixMate | Ruby on Rails Traineeship

A full-stack Ruby on Rails application that connects homeowners with local service providers (e.g., plumbers, gardeners, cleaners).

- Developed a scalable platform using Ruby on Rails and PostgreSQL, implementing specialized dashboards and a robust search engine to seamlessly connect homeowners with categorized maintenance professionals.
- Built a comprehensive booking system with dynamic availability and overlapping time-slot management, while integrating ActionCable WebSockets and ActionMailer to ensure real-time push notifications and email updates for system events.
- Integrated Devise for secure, multi-role user access control and utilized ActiveStorage for efficient media uploads, enabling service providers to showcase portfolios and containerizing the entire application with Docker for reliable deployments.

Fuel Price Prediction System | Hobby Project

A fuel price prediction system built with Python, Selenium (To scrape data from the Nepal Oil Corporation (NOC) website), and SARIMAX for time series forecasting.

Small Python Projects | Hobby Project

Hangman, and QR Code Generator

REFEREE

Prayash Maharjan

Technical Support Engineer

Variable Solutions Pvt Ltd

9845352395