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Experience	<div><div>Intern at Subiz Innovations as Python Automation Engineer</div><div><div>• Jun 2023 - Nov 2023 · 6 months</div><div><div>• Data Extraction : Made a python bot which extracts the Nepal stock exchange stocks data into a csv file.</div><div>• OCR : Used a PaddlePaddle OCR which converts Bank statement images, pdf into excel sheet.</div><div>• Data Cleaning : Extracted data from different sites which i was able to clean for ML model training</div></div></div><div><div>AI Engineer at Palm Mind Technology</div><div><div>• Dec 2024 - Present</div><div><div>• Hyundai Chatbot Revamp : Migrated Hyundai chatbot from LangChain to LangGraph, integrated SQLite for memory, and optimized the RAG pipeline. Deployed and maintaining with improved performance and scalability.</div><div>• Sanima Bank OCR Integration : Developed a FastAPI backend to integrate an OCR pipeline for extracting data from documents like application forms and KYC, and storing the structured output in MongoDB.</div><div>• OpenAI & Twilio Integration : Integrated OpenAI APIs with Twilio to enable real-time user interaction and automation</div><div>• CG Motors Chatbot Optimization : Refactored the entire CG Motors chatbot system to be fully asynchronous, significantly improving concurrency and response time. Enabled the bot to handle more users simultaneously with increased efficiency and scalability.</div></div></div></div></div>
Projects	<div><div><div>Phone Call Agent: Developed a real-time phone call agent using Twilio and OpenAI APIs. The agent can book, reschedule, and cancel appointments through natural conversation, leveraging WebSocket for real-time communication. Github : Link</div><div><div>Libraries used:</div><div>• WebSocket • FastAPI • Twilio</div></div></div><div><div><div>Build Llama.cpp for Custom GPU Architecture: Built and configured llama.cpp for custom GPU architectures.Compiled llama.cpp for GTX 1650 Ti Mobile and RTX 3060 (via Salad), enabling support for efficient inference.Successfully served the gemma-3 4B GGUF multi-model setup.Github : Link</div><div><div>Libraries used :</div><div>• Llama.cpp • Cmake • CUDA Toolkit • Multer • REST API</div></div></div><div><div><div>PPOCRv5 Fine-tuning Backend: Built a FastAPI backend to receive images and PDFs from a frontend dashboard, enabling users to easily fine-tune a PPOCRv5 model. The backend handles data preprocessing, configuration, and training, streamlining the fine-tuning process for document OCR tasks. Github : Link</div><div><div>Libraries used:</div><div>• Pytorch • FastAPI • PaddlePaddle • Datasets</div></div></div><div><div><div>ExStock : Developed ExStock to provide a risk-free platform for users to learn and practice stock trading using real-time NEPSE (Nepal Stock Exchange) data. Built features like a personalized AI tutor and pattern recognition learning to help users understand trading concepts and identify market trends. Simulated real trading scenarios with virtual currency to enable hands-on experience without financial risk.. Github : Link</div><div><div>Libraries used:</div><div>• BeautifulSoup • LangGraph • FastAPI • React • Socket</div></div></div></div></div></div></div>
Training	<div><div>AI Fellowship</div><div><div>• Fusemachines Apr - Oct 2024</div><div><div>• Engaged in a comprehensive AI fellowship focused on advanced machinelearning, deep learning, and computer vision</div><div>• Applying technologies like face detection, gaze tracking, and head pose detection in Fellowship projects.</div></div></div></div>
Education	<div><div><div><div>Lincoln University,</div><div>Phoenix College of IT & Management</div><div>Maitidevi, Kathmandu</div><div>2022-2025</div></div><div><div>Bachelor of Information Technology</div><div>• BIT</div></div></div><div><div><div>Hope International College</div><div>Karkando , NPJ</div><div>2019-2021</div></div><div><div>High School</div></div></div></div>