NISHAN KHAREL

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PROFESSIONAL SUMMARY

Results-driven Machine Learning Engineer with 1+ year of hands-on experience deploying AI solutions and managing end-to-end ML pipelines. Specialized in Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and data engineering using Apache Airflow and Docker. Proven track record of developing chatbots, implementing ETL processes, and delivering data-driven insights that enhance business performance and Project Management.

EDUCATION

Bachelor of Computer Science and Information Technology

Texas International College (Tribhuvan University) — Expected 2026

TECHNICAL SKILLS

Technical Skills: Python, SQL, LLMs, RAG, Machine Learning, Deep Learning, TensorFlow, Transformers, FastAPI, Pandas, NumPy, Docker, Apache Airflow, Fine-tuning, Project Management
Tools: Git, Jupyter Notebook, VS Code, Postman, PgAdmin, Anaconda
Soft Skills: Communication, Problem Solving, Creativity, Teamwork, Analytical Thinking, Jira, Microsoft Project

PROFESSIONAL EXPERIENCE

Junior Data Scientist(Traineeship) — *March 2025 – August 2025*
Mind Risers Technology — *Kathmandu, Nepal*

- Developed and deployed 2+ production-ready Prompt Engineering using OpenAPI keys and OpenAI GPT models, improving user engagement.
- Developed and deployed 2+ production-ready chatbots using LangChain and OpenAI GPT models, improving customer engagement by 40%
- Implemented RAG and LLM Based concepts using vector embeddings and vector database.
- Implemented rapid prototyping methodologies that reduced development time by 30% through iterative testing
- Collaborated with cross-functional teams to deliver AI solutions aligned with business objectives

Data Science Consultant — *Oct 2024 – Present*
Namaste Network — *Chabahil, Kathmandu*

- Mentored 50+ students on data analysis projects using Microsoft Power BI and Python, achieving 95% project completion rate
- Delivered comprehensive training sessions on data visualization techniques using Matplotlib and Seaborn
- Designed curriculum and learning materials for data science bootcamp, improving student satisfaction by 25%

Machine Learning Tutor — *2024*
Texas International College — *Kathmandu, Nepal*

- Conducted 20+ lectures and mentoring sessions on AI and Machine Learning for undergraduate students
- Facilitated hands-on workshops on ML concept implementation, resulting in 90% student pass rate
- Developed practical exercises and real-world case studies to enhance student understanding

KEY PROJECTS

Recruit Nepal-Job Description Creator [GitHub](#)
Built a streamlit web app for Job Description Creator , using Streamlit Community for Deployment.

Recruit Nepal — AI-Powered Job Matching Platform [GitHub](#)
Built custom prompts for ATS (Applicant Tracking System) score analysis, enabling accurate evaluation of resume-job match using AI.Designed prompt workflows to dynamically generate personalized job descriptions based on input keywords, role, and company details

Nepal Constitution Chatbot [GitHub](#)
Built RAG-based QA system for Nepal's Constitution using PyMuPDF, LangChain, and FAISS. Integrated OpenAI embeddings and GPT-3.5-turbo achieving 85% accuracy rate with robust error handling and secure API management.

PopUp-Vendor to vendor
Developed multi-document chatbot with conversational forms for user information collection. Integrated LangChain with openAI API key for enhanced NLP capabilities and implemented user session management.

Resume Analyzer Parser [GitHub](#)
Built Streamlit web application for resume-job matching using OCR and Google Gemini API. Achieved 80% accuracy in skills extraction and automated learning resource suggestions for skill gaps.

Job Description Creator [GitHub](#)
Designed a streamlit application of creating a Job Description using the user input data and result feedback by API key using Gemini API keys.

Face Recognition Attendance System [GitHub](#)
Developed real-time attendance system using OpenCV for face recognition and MySQL integration. Achieved 95% recognition accuracy with live video processing and database logging capabilities.

Machine Learning Analysis Projects

- **Diabetes Prediction:** K-NN algorithm model with 92% accuracy (GitHub)
- **Wine Quality Analysis:** Random Forest classifier achieving 88% precision (GitHub)
- **IPL 2022 & Netflix Data Analysis:** Comprehensive EDA using Pandas, Matplotlib, NumPy, Seaborn (GitHub)

CERTIFICATIONS

- **Python Programming** – Programiz Pro, 2024
- **NumPy for Data Science** – Programiz Pro, 2024
- **Structured Query Language (SQL)** – Programiz Pro, 2023

ADDITIONAL QUALIFICATIONS

- **Research & Development:** Actively develop ML models based on documentation and case studies with focus on practical implementation
- **Technical Leadership:** Experience mentoring junior developers and leading technical workshops for diverse audiences
- **Continuous Learning:** Stay updated with latest ML/AI trends through research papers and industry best practices
- **Communication:** Strong presentation skills with ability to explain complex technical concepts to non-technical stakeholders