Chandra Raskoti

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Summary

- Machine Learning Engineer with **4+ years** of industry experience (including **Lead ML Engineer**). Built production ML systems across LLMs/RAG, computer vision, time-series forecasting, and conversational AI.
- Production and **MLOps** focus: data pipelines, evaluation, APIs, CI/CD, cloud deployment, and monitoring on AWS/Azure.

Skills

Languages & Core:	Python, C/C++, SQL, Git
ML/DL:	PyTorch, Transformers/LLMs, Visual Language Actions (VLA), Retrieval-Augmented Generation (RAG), Embeddings, Ranking/Retrieval, NLP, Computer Vision, Time-Series Forecasting
MLOps & Software:	Docker, Kubernetes, CI/CD, MLflow (tracking/registry), REST APIs (FastAPI), Model serving, Monitoring/Logging, HuggingFace, Data validation/testing
Cloud & Data:	AWS, Azure, PostgreSQL, MongoDB, Neo4j, Vector Search

Work Experience

Lead Machine Learning Engineer, Olive Group   Jul 2023 – Jul 2024

- Built an LLM prompt-to-video generation system for safety training courses used by schools and industries in Europe; designed a retrieval-augmented workflow over prompts, scripts, and media assets.
- Led ML engineering execution (design reviews, experimentation, code reviews, deployment) for a team of 3 engineers and partnered with full-stack, DevOps, and product/content teams to deliver production releases.

Machine Learning Engineer, Fusemachines   Dec 2019 – Jul 2023

- Built multivariate forecasting pipelines for **400+** video game SKUs across territories and retailers with horizons from weeks to months; what-if analysis and promotion planning for **multi-million** revenue streams via robust backtesting and production deployment.
- Built a conversational agent for a school management platform; delivered a beta used by 4 schools by integrating intent classification, entity resolution, and a structured knowledge layer (graph/relational data).
- Developed semi-supervised encoder–decoder models for protein–disease association discovery using large-scale biomedical datasets in collaboration with biopharma researchers.

ML/Python Instructor & Mentor, Fusemachines   Aug 2022 – Jul 2023

- Mentored **8** ML apprentices in a **3-month** program; taught Math, Python/ML (CV, NLP, time-series) with an emphasis on production ready workflows and hands-on project delivery.

Research Assistant, University of Tennessee   Aug 2025 – Present

- Researching perception-driven bimanual robotic grasping/manipulation for delicate medical applications; working on Vision-Language-Action and embodied AI with imitation learning, dataset development, and training/evaluation pipelines.
- First-authored *MIAT* (vehicle trajectory prediction); achieved a **11.1%** improvement in long-horizon performance vs. baseline through maneuver-intention-aware modeling and spatio-temporal attention.

Publications

- **C. Raskoti**, I. Islam, X. Wang, and W. Li, "MIAT: Maneuver-Intention-Aware Transformer for Spatio-Temporal Trajectory Prediction." *IEEE/RSJ IROS*, 2025. Link.
- **C. Raskoti** and S. Ghimire, "Continual Learning With Hard Attention Parameter Masking on Image Classification Tasks." *IOEGC*, 2024.

Projects

Metahuman Interview Agent

- Built an interview agent combining speech-to-text, text-to-speech, and an LLM to run STAR-style interviews and generate rubric-based feedback; packaged as a reusable service (API + prompt templates + evaluation checklist).

Elevation-aware 2D/3D Traffic Co-simulation Framework

- Built a co-simulation framework that generates elevation-aware 3D road networks from map/GIS data to enable higher fidelity traffic simulation and evaluation for intelligent transportation ML models.

Education

M.S. Computer Science, University of Tennessee   Aug 2024 – May 2026

B.E. Electronics and Communication Engineering, Tribhuvan University   Nov 2015 – Sept 2019

- Government scholarship recipient (acceptance rate $< 4\%$).