Chandra Raskoti

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Work Experience

Graduate Research Assistant, Tan Engineering Lab — Aug 2025 – Present
- Research on robotic grasping and manipulation on deformable objects for medical applications.

Graduate Research Assistant, Fluidic City Lab — Aug 2024 – Jul 2025
- Research machine learning techniques to model and predict complex traffic interactions in high-fidelity, mixed-traffic environments.
- Developed a Maneuver Intention aware and tunable framework for vehicle trajectory prediction in mixed traffic environment.
- Developed a elevation aware 2D/3D co-simulation framework for large-scale traffic flow and high-fidelity vehicle dynamics.

Lead Machine Learning Engineer, Olive Group — Jul 2023 – Jul 2024
- Led prompt-to-video content creation project using LLMs, information retrieval, and semantic similarity.
- Developed OCR and information extraction systems for books with object recognition and table extraction.
- Managed ML engineering team through project exploration, design, and implementation.

Machine Learning Engineer, Fusemachines Inc. — Dec 2019 – Jul 2023
- Built multivariate time series forecasting pipelines for a video game publisher with feature engineering, model development and deployment.
- Created encoder-decoder semi-supervised models for protein-disease association discovery in biopharma.
- Developed personalized chatbot systems with database integration and intent recognition.

ML/Python Instructor & Mentor, Fusemachines Inc. — Dec 2019 – Jul 2023
- Mentored ML apprentices and instructed Python/ML courses covering CV, NLP, and time series.

Skills

Languages: Python, C, C++
Machine Learning: PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy, MLFlow
Tools & Cloud: Git, Docker, Kubernetes, AWS, Azure, SQL, MongoDB

Projects

Metahuman Interview Agent
- AI interview system with Unreal Engine 4, integrating speech-to-text, TTS, and LLM plugins for STAR format questioning-answering.

ECC Encrypted Ad-hoc Sensor Network
- Weather data collection network over Kathmandu Valley demonstrating ECC encryption efficiency over RSA for embedded systems.

Publications

- **C. Raskoti**, I. Islam, X. Wang, and W. Li, "MIAT: Maneuver-Intention-Aware Transformer for Spatio-Temporal Trajectory Prediction." *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025. PDF
- **C. Raskoti**, and W. Li, "Elevation aware 2D/3D co-simulation framework for large-scale traffic flow and high-fidelity vehicle dynamics *[*Preprint draft]".
- **C. Raskoti** and S. Ghimire, "Continual Learning With Hard Attention Parameter Masking on Image Classification Tasks." IOEGC 2024

Education

Master of Science in Computer Science — Aug 2024 – In Progres
University of Tennessee

Bachelors in Electronics and Communication Engineering — Nov 2015 – Sept 2019
Institute of Engineering, Pulchowk Campus
- Government scholarship recipient (<4% acceptance rate)