

Shikshya Shiwakoti

📍 Greater Boston ✉ shikshiwakoti@gmail.com ☎ +1 (339) 240-0582 🔗 shh_shikshya.github.io
in shikshyashiwakoti 🎧 shikshya-max

Summary

Graduate student in Artificial Intelligence with a 4.0 GPA, passionate about machine learning and committed to developing ethical, transparent, and human-centered AI systems.

Education

Worcester Polytechnic Institute Jan 2025 – Dec 2026
MS in Artificial Intelligence
◦ GPA: 4.0/4.0 cumulative ([Transcript here](#) 🔗)

Projects Experience

Adversarial Attack via Knowledge Distillation Jan 2025 – May 2025
Mentor: Prof. Raha Moraffah Paper: [here](#) 🔗
◦ Trained a student model via multi-teacher knowledge distillation to generate transferable adversarial examples, achieving 95% PGD success with 6× faster generation than ensemble baselines on CIFAR-10, to improve black-box attack efficiency

Microsoft Academic Graph Information Retrieval for Research Recommendation and Assistance Sep 2025 – Dec 2025
Mentor: Prof. Xiaozhong Liu Paper: [here](#) 🔗
◦ Proposed Attention-Based Subgraph Retriever: a GNN-as-retriever model that uses attention pruning to pass a refined subgraph to an LLM for advanced knowledge reasoning.

Nepali Text to Speech Synthesis July 2022 – May 2023
Mentor: Suramya Sharma Paper: [here](#) 🔗
◦ Developed Nepali Text-to-Speech (TTS) system by adapting pre-trained English Tacotron2 and WaveGlow models, achieving 3.09 average MOS, leading to improvement in pronunciation accuracy compared to baseline systems under low-resource conditions.

Industry Experience

AI & Automation Intern Wakefield, MA
TÜV SÜD America, Inc. Dec 22, 2025 – present
◦ Assist in the development and implementation of automation solutions using Microsoft Power Platform (Power Automate, Power BI, SharePoint, Co-Pilot Studio), and build secure LLM models.

AI Specialist (Part Time, On-Campus) Worcester, MA
Global Lab, Innovation Studio, WPI Sep 8, 2025 – present
◦ Serve as an AI consultant to students, providing guidance on AI tools, particularly open-source frameworks and develop an AI-driven interview simulation using avatars to prepare students for real-world technical interviews.

Data Engineer Lalitpur, Nepal
Cedar Gate Technologies July 2023 – Dec 2024
◦ Onboarded healthcare datasets from multiple U.S.-based clients, ensuring data integrity and consistency across ingestion pipelines and contributed to the scalable ETL integration framework at Cedar Gate Technologies, a US-based healthcare analytics company with operations in Nepal.

Fellowship Experience

Aspire Teaching Fellow Worcester, MA
Worcester/Central MA ASPIRE Regional Collaborative Feb 2025 – April 2025
◦ Collaborated with Professor [Prof. Charulata Trivedi](#) at Quinsigamond Community College to co-design inclusive, student-centered learning strategies and delivered a guest lecture focused on active engagement.

Skills

- **Programming Languages:** Python, C#, C++; **ML/DL Frameworks:** TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face; **Databases & Storage:** SQL, Amazon S3; **Visualization:** Tableau, Power BI; **Low-Code Platforms:** Microsoft Power Platform (Power Automate, Power Apps)