Dear Tsuyoshi Murata-sensei,

I hope this message finds you well. My name is Krish Bakshi, and I am writing to express my interest in contributing to the innovative research conducted at Murata Laboratory and applying for your master’s program at Tokyo Institute of Technology Fall/ September 2025 intake. Your work in artificial intelligence, web mining, and social network analysis, particularly your publications such as "Influence Maximization on Temporal Networks: A Review" and "Link Prediction for Ex-Ante Influence Maximization on Temporal Networks," deeply inspires me and aligns closely with my academic and career goals.

I am currently pursuing a Bachelor's degree in Computer Engineering at Savitribai Phule Pune University, where I have gained a solid foundation in machine learning, deep learning, and data analytics. Through my education and hands-on projects, I have developed a strong interest in understanding and applying structural data and network-based research to meaningful real-world applications.

During my Data Science Internship at Profcess, I contributed to develop and implement scalable data pipelines for time series forecasting, as well as optimize machine learning models like XGBoost and SARIMA. My project portfolio demonstrates my interest in practical AI, which includes Pulsemate, a cardiology chatbot driven by LLMs, and ImaginAIry, text-to-image software that uses Stable Diffusion XL. These experiences have helped me improve my Python, PyTorch, TensorFlow, and data processing pipeline skills, preparing me to contribute to cutting-edge research in network analysis and artificial intelligence.

In addition, my Practical AI with Python certification demonstrates my continued commitment to expanding my understanding of AI and machine learning. Furthermore, my Japanese proficiency (JLPT N3) qualifies me as an ideal candidate for seamless integration into your research environment and effective collaboration in a Japanese academic setting.

What interests me the most about your lab is its emphasis on graph neural networks and its use in understanding temporal networks and influence maximization problems. Your lecture, "Machine Learning for Structural Data with Graph Neural Networks," demonstrates your lab's commitment to developing AI for complex networked systems. I am particularly interested in learning how artificial intelligence may find hidden patterns and dynamics in social networks, which I am keen to pursue under your supervision.

Thank you for considering my application. I would be honored to discuss how my skills and interests align with your lab’s objectives. I look forward to the possibility of collaborating and contributing to your research.

**Sincerely,**

Krish Bakshi