Dear Professor ISOGAWA, Mariko - sensei,

I hope this email finds you well. My name is Krish Bakshi, and I am writing to express my strong interest in contributing to your research at Isogawa lab and applying for the master’s program at Keio University for the Fall/September 2025 intake. Your groundbreaking research in Computer Vision, Pattern Recognition, Image Synthesis, Machine Learning, Sensing deeply resonates with my academic pursuits and career aspirations.

I am currently pursuing a bachelor's degree in computer engineering at Savitribai Phule Pune University, where I have built a solid foundation in machine learning, robotics, and computational modeling, maintaining a strong academic record of 8.5 CGPA. My academic coursework in Probability and Statistics and Machine Learning has equipped me with the skills necessary to address challenges in developing intelligent systems.

During my Data Science Internship at Profcess, I contributed significantly to the design and deployment of scalable data pipelines for time series forecasting, utilizing Azure Databricks. I also optimized machine learning models such as XGBoost and SARIMA, enhancing predictive accuracy. My work extended to projects in computer vision and LLM-based applications. Notable projects include PulseMate, a cardiology chatbot fine-tuned for real-time medical knowledge retrieval, and ImaginAIry, a text-to-image generation application powered by Stable Diffusion XL, highlighting my expertise in generative AI and its real-world applications.

Additionally, my Practical AI with Python certification demonstrates my commitment to advancing my understanding of AI, deep learning, and related fields. I am also proficient in Japanese (JLPT N3), which allows me to collaborate effectively in a Japanese academic and research environment.

What excites me about Isogawa lab is its focus on research in Computer Vision to analyze human and object interactions within a scene using data from cameras and sensors. The lab also specializes in image and video synthesis to generate rich, detailed information. Additionally, the lab explores advanced Machine Learning and Sensing techniques, offering a comprehensive approach to understanding and processing visual data. I am eager to apply my expertise in computer vision and human & object interactions to further your groundbreaking research and contribute to meaningful advancements under your mentorship.

I am eager to bring my skills in Python, TensorFlow, machine learning, and deep learning to contribute to your lab’s cutting-edge research. Under your guidance, I hope to explore new frontiers in Computer Vision, Pattern Recognition, Image Synthesis, Machine Learning, Sensing.

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

Sincerely,

Krish Bakshi