Dear OHARA, Kyoko Hirose -sensei,

I hope this email finds you well. My name is Krish Bakshi, and I am writing to express my keen interest in contributing to your research field in Cognitive Linguistics, Lexical Semantics, Construction Grammar, Corpus Linguistics, Natural Language Processing at the Keio University, and applying for the master’s program for the Fall/September 2025 intake. Your groundbreaking work, particularly your papers such as “Frame integration and head-switching RISK in English and Japanese (Article), Extraction of verb hierarchical structures from FrameNet and Constructing large-scale semantic frame knowledge with crowdsourcing deeply inspires me and aligns closely with my academic aspirations.

I am currently pursuing a Bachelor’s degree in Computer Engineering at Savitribai Phule Pune University, where I have developed a strong foundation in machine learning, deep learning, and computational modeling. I also have a strong academic record with an 8.5 CGPA. My coursework in Probability and Statistics and Machine Learning has prepared me to tackle challenges in advancing AI and logic-based reasoning systems.

During my PulseMate project, an AI-powered cardiology chatbot using NLP techniques, fine-tuned with domain-specific data and integrated with RAG for real-time medical knowledge, enhancing skills in NLP and AI model development. Another project ImaginAIry, a text-to-image app using Stable Diffusion XL and animagine-xl-3.1, leveraging Python and Hugging Face for high-quality, real-time image synthesis, focused on creative tasks like concept art and rapid prototyping. These projects allowed me to leverage tools like Python, GenAI, Hugging Face, and RAG to address real-world challenges, particularly in natural language processing and AI model development. In PulseMate, I fine-tuned NLP models for medical applications, while in ImaginAIry, I utilized advanced AI techniques for creative tasks. I believe this hands-on experience aligns well with your lab’s focus on leveraging NLP to solve complex problems and advance AI-driven innovations.

Added with my certification in Practical AI with Python and proficiency in Japanese (JLPT N3), I am confident in my ability to make valuable contributions to your lab's ongoing projects.

What excites me most about your research is the focus on Natural Language Processing and your recent publication on "The Role of FrameNet in Frame Semantics, Construction Grammar, and Natural Language Processing." particularly resonates with my interest in natural language processing and AI model development to solve real-world problems.

Under your guidance, I aspire to contribute to the development of innovative frameworks that push the boundaries of explainable AI and robust learning systems. I am eager to bring my skills in Cognitive Linguistics, Lexical Semantics, Construction Grammar, Corpus Linguistics, Natural Language Processing to support your lab’s ongoing research.

Thank you for considering my application. I would be honored to discuss how my skills and experiences align with your research objectives. I look forward to the possibility of collaborating and learning under your esteemed mentorship.

Sincerely,

Krish Bakshi