Dear Masamichi Shimosaka-sensei,

I hope this message finds you well. My name is Krish Bakshi, and I am writing to express my sincere interest in contributing to the impactful and innovative research conducted at your laboratory. Your pioneering work in ubiquitous computing, pervasive sensing, and intelligent data analytics for modeling human behavior has greatly inspired me and aligns deeply with my academic goals and career aspirations. In particular, I am fascinated by your achievements in deploying wearable and ambient sensors and leveraging machine intelligence to enhance human-centered technologies.

Currently, I am pursuing a Bachelor’s degree in Computer Engineering at Savitribai Phule Pune University, where I have maintained a strong academic record of 8.5 CGPA. Through my education and professional journey, I have gained hands-on experience in machine learning, and deep learning, particularly during my time as a Data Science Intern at Profcess, where I designed and deployed scalable data pipelines for time series forecasting on Azure Databricks, improving forecasting accuracy through models like XGBoost and SARIMA. This role allowed me to leverage tools such as PySpark, TensorFlow, and MLflow to address real-world challenges, which I believe aligns with your lab’s focus on intelligent data analytics and IoT-driven solutions.

My passion for interdisciplinary research is evident in projects such as Pulsemate, a cardiology chatbot developed using GPT-3.5 and retrieval-augmented generation (RAG), which provides real-time medical insights to users. Additionally, my cardiovascular disease prediction model, achieving 92% precision, showcases my ability to apply machine learning techniques to healthcare challenges. Combined with my certification in Practical AI with Python and my proficiency in Japanese (JLPT N3), I am confident in my ability to contribute meaningfully to your lab’s ongoing initiatives.

What excites me most about your lab is its emphasis on leveraging pervasive sensing technologies to model and understand human behavior, particularly in areas such as lifelogging and human-computer interaction. I am eager to apply my expertise in Python, PyTorch, TensorFlow, and statistical data analysis to further your groundbreaking research and contribute to meaningful advancements under your mentorship.

Thank you for considering my application. I would be honored to discuss my qualifications and potential contributions further. I look forward to the opportunity to collaborate and learn under your esteemed guidance.

Warm regards,

**Krish Bakshi**