Dear RAGE Uday Kiran- sensei,

I hope you are doing well.

My name is Krish Bakshi, and I am writing to express my strong interest in joining your research group and applying to the Master’s program at the University of Aizu for the Fall/September 2025 intake. Your main research in Discovering Periodic Patterns in Temporal Databases has profoundly inspired my academic and professional goals.

I am currently completing my Bachelor of Computer Engineering at Savitribai Phule Pune University, with expected graduation in June 2025. Through rigorous coursework in Machine Learning, Probability & Statistics, and Computer Vision, I have built a solid foundation in developing real time intelligent systems.

As a Data Science Intern at Profcess, I designed and deployed an automated image preprocessing and OCR pipeline—achieving 87% accuracy—for noise reduction and key detail extraction. I also developed CNN based classification models for real time plant disease detection and created ImaginAIry, a text to image generation application leveraging Stable Diffusion XL. These experiences sharpened my skills in Python, TensorFlow, PyTorch, and real time system integration.

My academic projects closely align with your research themes: I built an online handwriting-based gender recognition model using statistical and machine learning methods, implemented gesture recognition algorithms for non-touch interfaces, and developed an ADHD detection system from fNIRS signals during cognitive tasks. These efforts mirror your publications on handwriting recognition and machine learning–based neurological diagnostics.

Your research in Data Science, particularly pattern mining, knowledge graphs, and intelligent systems, aligns with my background in Machine Learning, Probability & Statistics, and Computer Vision. His work on pattern discovery and predictive analytics resonates with my passion for extracting insights from complex data, while his focus on intelligent transportation and air pollution analytics reflects my interest in applying data-driven solutions to real-world challenges. Collaborating under his guidance would be a valuable opportunity to deepen my expertise in large-scale data modeling and AI-driven analytics.

In addition, my Practical AI with Python certification underscores my commitment to advancing my expertise in AI and its applications, while my Japanese proficiency (JLPT N3) enables me to integrate seamlessly into your academic environment and collaborate effectively within a Japanese research setting.

Thank you for your time and consideration. I would be delighted to discuss how my background and research interests align with your work & explore ways I can contribute to your ongoing research.

Sincerely,

Krish Bakshi