

# Motivation Letter

**To Whom It May Concern,**

I am excited to apply for the Doctoral Researcher position in Machine Learning for Smart Water at Technische Universität Clausthal. My academic foundation in Electronics, Communication, and Information Engineering, combined with my passion for sustainable systems, aligns strongly with the objectives of this project.

Graduating at the top of my class with **82.32%**, I developed technical expertise in data-driven automation and machine learning. My undergraduate project, an automated waste classifier utilizing YOLOv8 object detection, exemplifies my ability to integrate AI into practical applications, a skill I aspire to extend to sustainable water management solutions.

The integration of machine learning into smart water systems to tackle resource challenges aligns closely with my research interests. I am eager to contribute to this mission while advancing my knowledge in the esteemed research environment of Technische Universität Clausthal.

Thank you for considering my application.

**Sincerely,**

Shiva Shrestha

[shivashrestha7.com.np](https://shivashrestha7.com.np)