Thi Ngoc Thu NGUYEN

Kohlberger 59, 52134 Herzogenrath - 017687389164 – ngocthubk@gmail.com

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Human Resources

Institute of Machine Elements and Systems Engineering, RWTH Aachen

Templergraben 55, 52062 Aachen

Dear Sir and Madam,

I am thankful for the chance to express my keen interest in the position Data Scientist in Condition Monitoring and Predictive Maintenance of Rolling Element Bearings at Institute of Machine Elements and Systems Engineering of RWTH Aachen, as advertised. With a solid foundation in data science and mathematics, combined with experience in research, and working in the field of condition monitoring solutions for rolling element bearings, I am enthusiastic about the opportunity to contribute to your team's cutting-edge projects and drive impactful insights through the goal-oriented researches.

My academic journey includes my master’s degree in Software Engineering at Thai-German Graduate School of Engineering on the model of RWTH Aachen, where I delved deep into machine learning algorithms, and data visualization techniques. Additionally, with the goal to obtain the IBM Data Science Professional Certificate at the beginning of June, I am taking 10 online courses in IBM Data Science every day. Until now I have completed 8 courses of them, which have provided me with practical skills in data manipulation, exploratory data analysis, machine learning, and data visualization using various tools like Jupyter Notebook, Pandas, Matplotlib and so on.

During my internship and my master thesis at RWTH Aachen and Gremse-IT GmbH, I have honed my research skills through rigorous academic training and hands-on experience. In our research, we assessed the accuracy of the computation of trabecular thickness and spacing by comparing results and correlating variables through data visualization, in order to examine the accuracy over the various voxel sizes. Through this work, I have gained insights into data and found out information from different aspects of the data and become very interested in data. Additionally, being familiar with bearing metrics definitively helps me to start working in the new position quickly.

I am particularly drawn to the Data Scientist position at IMSE of RWTH Aachen because of its reputation for fostering innovation and excellence in data science research. I am excited about the opportunity to collaborate with a diverse team of researchers and contribute to projects that push the boundaries of knowledge in this field. Moreover, I am eager to leverage my expertise in Data Science to harness the power of data and drive meaningful impact across various domains.

Enclosed is my resume, which provides additional information on my educational background, research experience, and technical skills. I am confident that my unique blend of academic knowledge, practical skills, and research acumen make me well-suited for the position at IMSE. Thank you for considering my application. I look forward to the opportunity to discuss how I can contribute to your team's success.

Warm regards,

Thi Ngoc Thu Nguyen