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To Whom It May Concern

15.12.2025

Letter of Recommendation

I am delighted to write this letter of recommendation for Shivani Sharma, who is current doing her master's thesis under my supervision in the Bioinformatics Group (Department of Computer Science) at Albert-Ludwigs-Universität Freiburg. Prior to that, I also supervised her in the machine learning for bioinformatics seminar as well as her master's project.

During her project, the student compared several state-of-the-art deep learning models for RNA-protein interaction (RPI) prediction, revealing interesting differences between model architectures regarding their performance. The work included setting up a total of 6 different models, which is typically not straight forward. Moreover, fine-tuning schedules are not always provided, so the student had to implement missing schedules on her own, all of which she solved with great proficiency. Building upon these results, her thesis will include a thorough evaluation of state-of-the-art prediction tools for RPI prediction, including various baseline comparisons, in-depth model fine-tuning, implementation of realistic test scenarios, and hyperparameter optimization. I am confident that the student will master this extended work just as successful as she did her master's project.

Based on this experience, I recommend Shivani Sharma without reservation.

Please do not hesitate to contact me for any further information.

Sincerely,

Dr. Michael Uhl

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