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SUNY Potsdam Reappointment Committees

I write in support of the reappointment of Dr. Supraja Gurajala. I have had the pleasure of auditing her first offering of CIS 475 Introduction to Cryptography in Spring 2018 and I am currently attending her CIS 431 Machine Learning course, Spring 2020. I have been able to observe her teaching in two upper-division courses for more than a semester.

Dr. Gurajala is a successful teacher of complex topics because of her deep understanding of the topics, her enthusiasm in the classroom, and her careful attention to detail. She is also very good at adjusting the pace and method of presentation to make sure the class is learning the material.

Machine Learning is a 400-level course in Dr. Gurjala's area of specialization. I remain impressed by Dr. Gurajala's dissertation because it reported negative as well as positive results. Her appreciation for determining where machine learning techniques work and where they don't informs the material in the course.

The design of the course, ranging across the breadth of machine learning techniques while drilling down to the exact underlying mathematics, reflects the width and depth of her knowledge in the field. Her research experience is reflected in the many real-world examples she brings into the classroom for each technique.

Dr. Gurajala's abiding interest in big data and machine learning is obvious both in *how* she teaches as well as *what* she teaches. The course is covering a very broad collection of very current work and she assigned no textbook. Instead she works examples on the board every single class. The first week of class was rough for some students because Dr. Gurajala wanted to get to the "good stuff" so she went a little bit fast for many. Noting this, and wanting to make sure that everyone could, eventually, come along to the good stuff, Dr. Gurajala rewrote her lectures beginning in the second week. The level of mathematics is still high and the presentation rigorous but the students are obviously following along much better than before. Dr. Gurajala's ability and willingness to shift gears when necessary reflects her ability as a teacher.

Adjusting the target level of the lectures required reworking of Dr. Gurajala's extensive notes. These notes and the use of example code and example images that she prepares

before class show just how much effort she puts into preparing for class. The complexity of models such as multiple regression means that knowing the answer ahead of time is very necessary to teach the material; Dr. Gurajala is always ready with carefully solved examples.

Dr. Supraja Gurajala teaches a fast-paced, thorough introduction to Machine Learning. Students are challenged and well-supported in her class. Her complete understanding of the material permits her to tune her presentation to match the students in the course; her breadth of experience permits her to bring real-world examples into an introductory course. This course is a very strong addition to our curriculum and Dr. Gurajala is a great person to teach it. I very much look forward to working with her for many years to come.

Sincerely,

Brian C. Ladd
Associate Professor of Computer Science