**Homework Group Credit Task COSC 6335**

**Prepare a Tensorflow Playground Demo**

**Group L**

**To be presented on Tuesday, November 28, 2023**

Each of you initially plays around with the tool <http://playground.tensorflow.org/> centering on classification sets in the tool; however,

* Explore the impact the learning rate has on the learning process in general and the final result
* Expose the datasets to noise up to 40% and analyze what the impact the noise has on obtained training and test loss and observe if overfitting occurs.
* Explore the impact of using L1 regularization for the original datasets and on datasets with 10% and 30% noise
* If you can, show some convincing examples of overfitting

Next prepare a 8-12 minute Tool demo of the most interesting runs you observed. Finally, prepare a summary slide (or 2, if you need more space) of what you observed when explored the tool and discuss the slide in 2-4 minutes after your demo.