

My research focuses on developing methods for learning data efficient models based on learning from similarity comparisons and active learning. The motivation behind using comparisons comes from the idea that it is easier to compare different data samples than evaluate every sample on an absolute basis. Active learning aims to reduce the label complexity of tasks by selecting the most informative samples to be labeled. I'm interested in leveraging similarity comparisons to motivate task agnostic active learning schemes and also designing active methods to select labels while considering the bias influencing human responses. I'm interested in understanding how the problem considered and the modality of the data affect the design of active data selection methods. I have studied the performance of our developed methods for problems such as image classification, deep metric learning and preference learning. Currently, I'm working on active label selection for time series classification. I would be very interested in exploring applications of my work for NeRF and other related areas.