

Research Statement

Past, Current and Future Research

Arman Sepehr

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Current Research: The research I have done during my PhD was mainly related to the information propagation within the social media. The model and inferring the network is only the first step in this topic, then there are a lot of applications to employ the inferred model. As an example, in one of our research work, we find out the most probable source node who is responsible to propagate the information in the network. In the other research work, we would like to infer the COVID-19 propagation network within different countries, and then, think about how would be happened if some prevention program applied.

Past Research: The data which are produced fast, continuous and has concept drift are named data streams. They have many applications such as processing financial transactions, sensor network, or collected data by web services. I worked on multi-class classification on data streams that the main challenge is handling concept drift. I proposed an innovative way to save classifier by each class which I named it "class-based ensemble classification". Results show accuracy is improved a little, but robustness in multi class data set is predominant point of this approach.