EXPLORING AND EXPLOITING HIERARCHY IN DATA AND MODEL

DISTINGUISHED TALK BY
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Abstract:

There are strong evidences that our learning and planning mechanisms are hierarchical. In view of this, several computational models have been proposed on hierarchical processing of data for performing various tasks of inference. The deep neural architectures too follow a multilayered hierarchical processing for feature extraction and classification. Usually in machine learning, emphasis has been given on the design and development of a hierarchical computational model and to study their applicability in performing the tasks of inference. In contrast, not much attention is paid to the tasks of exploring and exploiting hierarchy in data and computational processes for developing a model. This research agenda also includes the discovery of hierarchy in data, which is a widely-studied research problem, and has several applications. However, for both the tasks, it is more challenging to handle large data and large models. In this talk, some of our initial thoughts, works and results on these two problems would be shared and presented.

VENUE

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