

Invitation to M.Tech. Thesis Defense of Sanket Suhas Deshpande: July 17, 2020 (Friday): 10.00-10.45 IST

In Partial Fulfillment of the Requirements for the Degree of

M.Tech. CB

Sanket Suhas Deshpande (MT18248)

Will defend his thesis

Title: **“A cross-study transfer learning strategy for improved analysis of single cell expression data”**

IIIT-D Faculty and Students are invited

Date: July 17, 2020 (Friday)

Time: 10.00-10.45 IST

Place: Online (Google Meet)

Examiner:	Internal:	Gaurav Ahuja
	External/Internal:	Ganesh Bagler
	Advisor:	Debarka Sengupta

Abstract

Transfer learning is a domain of machine learning where a model, trained for a task can be repurposed to do a different task without starting from scratch. Besides, improved analysis outcomes, transfer learning reduces computing load. Here we use Doc2Vec, a natural language processing method to train and create embeddings on single cell expression data. We show that a model trained on a dataset can be used for improved detection of cell sub-types and differential expression analysis of other scRNA-seq data.

