

GRADUATE SEMINAR

Prab Bains

Deception Detection by Deep Learning

*Masters Student supervised by
Jan-Paul Venter and Andrei Volodin*

Date- 14th November 2023

Time - 11:30-12:30

Location- Zoom

Abstract

The objective of this research is to examine the efficacy of deep learning models in identifying deceit in written comments pertaining to controversial topics. Data was collected, and the performance of different machine learning models was subsequently compared. The performance of conventional methods, namely Support Vector Machines (SVM) and Naive Bayes, was surpassed by more advanced approaches including Long Short-Term Memory (LSTM), Gated Recurrent Unit (GRU), bidirectional RNN, Convolutional Neural Network (CNN), and transfer learning utilizing a pretrained sentence encoder.