

# [Scdt] SCDT-FlexE Centre Weekly Tuesday Seminar - 26.01.2022 at 7:30 PM



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**Priority** Normal

Zoom Meeting for joining the webinar:

<https://zoom.us/j/99863678964?pwd=ZVJvdFN5T1UyQjdZbmxwS0htRUJOUT09>

Meeting ID: 998 6367 8964

Passcode: 064022

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Dear Colleagues,

For this week's Tuesday SCDT-FlexE Centre Seminar, we are delighted to have Prof. Vipul Arora from the Electrical Engineering Department give a talk. He will be sharing with us the basics of machine learning. With the help of an example he will show its utility in solving real world problems. A brief outline of his talk is given below followed by his bio.

Please join the on-line seminar if you are in a position to do so.

With regards

S.K.I.

~~~~~ Details of the Seminar ~~~~~

Weekly Seminar:

Title: "Machine Learning and its applications in Sound Event Detection"

Abstract of talk:

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Given its recent empirical success, machine learning (ML) is finding applications in almost all the fields of sciences and engineering. This talk will discuss some basics of ML, in general, and neural networks, in particular. It will also suggest some popular tools to quickly build ML systems. Finally, an application of ML in sound event detection for smart-home or industrial monitoring will be discussed.

Bio:

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Vipul Arora (home.iitk.ac.in/~vipular/) is an assistant professor in the Department of Electrical Engineering, IIT Kanpur. His research interests are in machine learning for audio signals, sensors and Physics.

He received his B.Tech. and Ph.D. degrees in Electrical Engineering from the Indian Institute of Technology (IIT) Kanpur, India. He then went on to hold a postdoc position at Oxford University (UK) where he developed

speech recognition systems using linguistic principles, with applications in automatic language teacher and speech recognition for low-resource languages. Then he spent time at Amazon in Boston (USA), working on audio classification for developing Alexa home security system, with research focusing on classification with imbalanced data.

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