



Information and Announcements

Summer School on Machine Learning for Molecular Science 13–18 July 2020*

ML for Science Research Group
International Institute of Information Technology
Hyderabad

ML for molecular science: Modern machine learning/deep learning methods have had several prominent successes in molecular sciences; notable examples are in the areas of protein folding, prediction of quantum mechanical energies, prediction of drug properties, enhanced sampling in molecular dynamics simulations, material design, etc. This is leading to an outlook that these methods may become significantly important research tools in general.

About the summer school: The summer school will provide basic exposure to various modern machine learning methods via lectures and hands-on experience in using some of these methods to solve simple problems in molecular science. The one-week course will cover methods such as artificial neural network, convolutional neural network, recurrent neural network, kernel ridge regression, support vector machine, auto encoders and reinforcement learning.

Eligibility: (1) Early PhD students (maximum of 3 years from the date of joining) working in the areas of molecular science (both chemistry and biology); (2) Masters students (recent graduates and first-year completed) who intend to do PhD in the areas of molecular science.

Registration: Due to the limited availability of seats, a pre-registration application needs to be filled out first and the final registration link will be sent to the selected applicants.

Awards: Top 10% participants (assessed based on the performance in the summer school) will be awarded a cash prize of Rs.5000 and a certificate of performance.

For more information, please contact us:

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