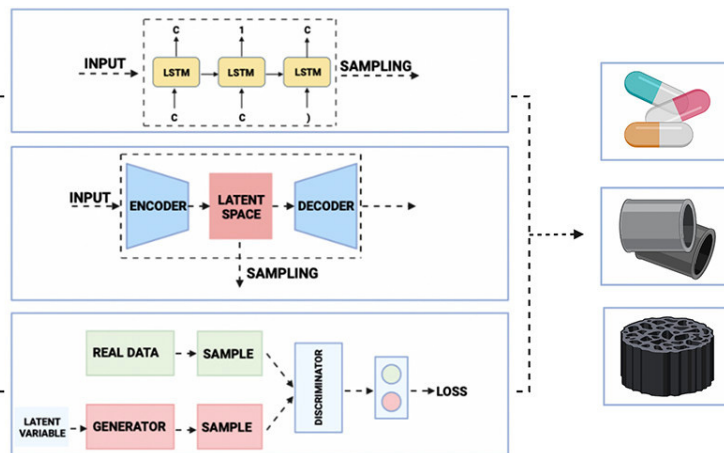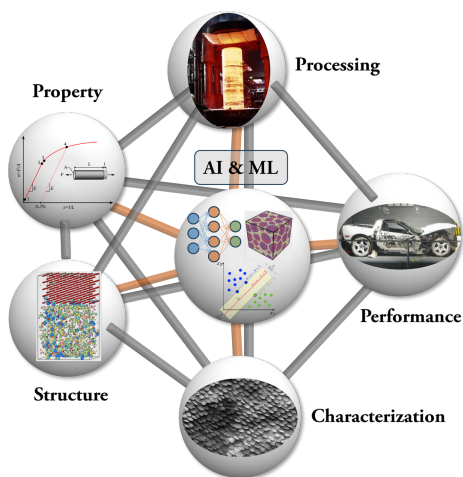## GIAN course

Artificial Intelligence and Machine Learning for Materials Science

December 11-15, 2023 (online mode)

About the course

The recent surge in high-performance computing, along with advances in big-data analytics, machine-learning (ML) and artificial intelligence (AI) methods has revolutionized materials research including materials design and discovery, synthesis, and materials characterization. This course will cover the latest developments in artificial intelligence-based techniques to *(a) accelerate discovery of materials, (b) improve/accelerate synthesis protocols, (c) enhance existing characterization methods, and (d) develop robust, efficient, and accurate materials models, along with hands-on tutorials.*

Instructors

Subramanian Sankaranarayanan

Associate Professor, University of Illinois Chicago and Group Leader, Argonne National Laboratory

Raghavan Ranganathan (Course coordinator)

Assistant Professor, Materials Engineering, Indian Institute of Technology Gandhinagar

Dates and Registration

- Deadline for registration on GIAN portal: **November 25, 2023**
- Deadline for payment of course fee (selected participants will be informed via email): **December 4, 2023**
- Participants need to first register for the course on the GIAN portal (http://gian.iitkgp.ac.in/GREGN/index) following which, if selected to attend the course, the course fee should be paid

For more details, please visit the course webpage or contact the course coordinator

Course webpage: https://events.iitgn.ac.in/2023/ai-ml-materials/

Course coordinator | rraghav@iitgn.ac.in