MIT Professional Education Short Course

MACHINE LEARNING FOR MATERIALS INFORMATICS Markus J. Buehler

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With the success of effective and generalizable deep learning tools, the materials community is primed to take advantage of unprecedented breakthroughs, leveraging materials modeling, analysis, and design toward a more efficient, less costly, and more versatile response to market demands and opportunities. Tap into your existing data and develop an actionable vision for incorporating material informatics into your organization's strategies for developing technologies, services and increased revenue. With data available from autonomous experimentation or large databases like the Materials Project and the Materials Genome initiative, there exist many opportunities to accelerate and expand your materials design platform. The course involves a mix of lectures, hands-on labs and clinics for an immersive experience. Participants will learn fundamentals and techniques to deploy machine learning in materials development and gain first-hand understanding of state-of-the art tools for varied applications ranging from data mining to inverse design.

Sign up: https://professional.mit.edu/course-catalog/machine-learning-materials-informatics

