Assignment#2

CH5650: Molecular Data Science and Informatic
Jan-May, 2025

Due Date: Feb 14, 2025 (Online Submission, https://courses.iitm.ac.in/)

More information will be added to this assignment as we learn new concepts in the classes on Jan 28 and Jan 29.

Build following models for predicting the hardness of an alloy which is made of six elements – Al, Co, Cr, Cu, Fe and Ni.

1. A liner regression model
2. A polynomial regression model
3. Random forest (RF) models – compare the performance of three RF models each with varying number of trees. You could choose RF with 5, 10 and 15 trees.

Submit your code and a PDF file with the models description and result.