

Data Science Summer School 2022

Introduction to Machine Learning for Engineering Sciences

4 – 8 July 2022, Leoben, Austria

Schedule

The week of the TU Austria Data Science Summer School 2022 will consist of morning lectures and afternoon hands-on workshops. It will cover foundational topics of machine learning and applications in various technical areas. We start with an optional get-together on Sunday evening and are also planning an outdoor excursion on Wednesday, which will conclude with dinner.

The expected arrival in Leoben, Austria is Sunday, July 3th 2022.

Monday, July 4th

09.00 AM – 10.30 AM Intro Machine Learning: Performance measures & testing

Coffee break

11.00 AM – 12.30 PM Introduction to Python for Machine Learning

Lunch break

2.00 PM – 5.30 PM Workshop: Machine Learning with Python
(incl. coffee break)

Tuesday, July 5th

09.00 AM – 10.30 AM Intro Machine Learning: Data preparation & CNNs

Coffee break

11.00 AM – 12.30 PM Deep Learning with Python

Lunch break

2.00 PM – 5.30 PM Workshop: Deep Learning
(incl. coffee break)

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Wednesday, July 6th

09.00 AM – 10.30 AM Information, knowledge & understanding

Coffee break

11.00 AM – 12.30 PM Autoencoders for physical systems

Lunch break

2.00 PM – open end Excursion

Dinner

Thursday, July 7th

09.00 AM – 12.30 PM Machine Learning in robotics (incl. coffee break)

Lunch break

2.00 PM – 5.30 PM Workshop: Robotics (incl. coffee break)

Friday, July 8th

09.00 AM – 12.30 AM Machine Learning in Materials Science (incl. coffee break)

Lunch break

2.00 PM – 5.30 PM Open lab (incl. coffee break)

All information given is subject to change.