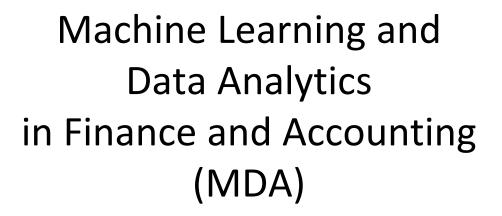


MUNICH INTERNATIONA



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LMU



Munich, Germany July 28 – August 14, 2025 www.ebi-misu.de



Online-Sessions July 28 – August 1 In-class Sessions August 4 – 14

**Tentative Schedule** 



# Munich 2025

Sessions: July 28 – August 14



## Patronage

**Prof. Dr. Thorsten Sellhorn** Institute for Accounting, Auditing and Analysis Munich School of Management



### Lecturer

#### Dr. Andreas Woltschläger

Professional expert and former Research Assistant Institute for Accounting, Auditing and Analysis at the Munich School of Management at LMU Munich



#### **Dr. Gereon Hillert**

Professional expert and former Research Assistant Institute for Accounting, Auditing and Analysis at the Munich School of Management at LMU Munich

#### Live seminar sessions

As live online tool for the courses, we will use "Zoom": <u>https://lmu-munich.zoom.us/</u>

It is not mandatory to create a LMU Zoom account. You will receive an invitation by email before the first session for participation in class and the Zoom Client is usable in your browser.

Classroom in Munich tba

## Program

All times are stated in the CEST standard time format

| Date                         | 9:00 a.m 1:30 p.m.  | 2:00 p.m. – 6:30 p.m.   |
|------------------------------|---|---|
| Mon,<br>28.07.2025<br>ONLINE | <ul> <li>Introduction</li> <li>Introduction to machine learning and its application in finance and accounting</li> <li>Readings</li> <li>MG* - Chapter 1 (p. 1 – 4)</li> </ul>                |   |
| Tue,<br>29.07.2025<br>ONLINE | <ul> <li>Introduction to Python (1/3)</li> <li>Getting ready</li> <li>Python Basics for Data Science</li> <li>Case – Part 1</li> <li>Readings</li> <li>MG* - Chapter 1 (p. 5 – 11)</li> </ul> |   |
| Wed,<br>30.07.2025<br>ONLINE |   |   |
| Thu,<br>31.07.2025<br>ONLINE | <ul> <li>Introduction to Python (2/3)</li> <li>Importing, cleaning and merging data</li> <li>Case – Part 2</li> </ul>   | Team event <ul> <li>Bavarian and international culture</li> </ul> |
| Fri,<br>01.08.2025<br>ONLINE |   |   |
| Sat,<br>02.08.2025<br>ONLINE | <ul> <li>Introduction to Python (3/3)</li> <li>Natural language processing</li> <li>Textual Analysis</li> <li>Case – Part 3</li> <li>Readings</li> <li>MG* - Chapter 7</li> </ul>             |   |
| Sun,<br>03.08.2025           | Arrival in Munich   |   |

| Date                           | 9:00 a.m 1:30 p.m.  | 2:00 p.m. – 6:30 p.m.   |
|--------------------------------|---|---|
| Mon,<br>04.08.2025<br>IN-CLASS | <ul> <li>Machine Learning</li> <li>Unsupervised machine learning</li> <li>Case - Part 4</li> <li>Readings</li> <li>MG* - Chapter 2 (p. 25– 27)</li> </ul> |   |
| Tue,<br>05.08.2025<br>IN-CLASS |   |   |
| Wed,<br>06.08.2025<br>IN-CLASS | <ul> <li>Machine Learning</li> <li>Supervised machine learning I –<br/>Basics</li> <li>Readings</li> <li>MG* - Chapter 2 (p. 25– 27)</li> </ul>           | <ul> <li>Machine Learning</li> <li>Supervised machine learning II (GH) <ul> <li>Application</li> <li>Case - Part 5</li> <li>Wrap-up &amp; Q&amp;A</li> </ul> </li> <li>Readings <ul> <li>MG* - Chapter 3 (p. 131-134)</li> </ul> </li> </ul>  |
| Thu,<br>07.08.2025<br>IN-CLASS |   |   |
| Fri,<br>08.08.2025<br>IN-CLASS | <ul> <li>Machine Learning</li> <li>Supervised machine learning II -<br/>Model evaluation</li> <li>Case - Part 6</li> </ul>                                | <ul> <li>Data Analytics I &amp; II</li> <li>Data Visualization</li> <li>Data description</li> <li>Statistical analysis</li> <li>Case - Part 7</li> <li>Selected topics in data analytics</li> <li>Summary of overall content</li> <li>Team event</li> <li>Bavarian culture</li> </ul> |
| Sat,<br>09.08.2025<br>IN-CLASS | <ul> <li>No class</li> <li>Time to prepare student presentations</li> </ul>   | <ul> <li>No class</li> <li>Time to prepare student presentations</li> </ul>   |

| Date                           | 9:00 a.m 1:30 p.m.                                      | 2:00 p.m. – 6:30 p.m.  |
|--------------------------------|---|--|
| Mon,<br>11.08.2025<br>IN-CLASS |   | <ul> <li>Presentations &amp; Wrap-up 2</li> <li>Presentations on supervised and<br/>unsupervised machine learning (e.g.,<br/>prediction of house price)</li> </ul> |
| Tue,<br>12.08.2025<br>IN-CLASS | No class <ul> <li>Time to prepare exam</li> </ul>       | No class <ul> <li>Time to prepare exam</li> </ul>  |
| Wed,<br>13.08.2025<br>IN-CLASS | <ul><li>No class</li><li>Time to prepare exam</li></ul> | No class <ul> <li>Time to prepare exam</li> </ul>  |
| Thu,<br>14.08.2025<br>IN-CLASS | Exam: 12:00 – 13:00<br>Farewell Event                   |  |
| Fri,<br>15.08.2025             | Departure from Munich                                   |  |

#### Note that the agenda is preliminary and may be subject to change.

**References:** 

\* Andreas C. Müller, Sarah Guido: Introduction to Machine Learning with Python: A Guide for Data Scientists, 1st Edition - MG (Main Textbook)

Bird, Steven; Klein, Ewan; Loper, Edward: Natural Language Processing with Python, First edition, 2009

Géron, Aurélien: Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems 1st Edition