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| Course title | *Introduction to Machine Learning* |
| Course code | *IP 301* |
| Module coordinator | *Cordelia Makartsev* |
| Lecturer | *Salma Aziz* |
| Level of course | *Bachelor* |
| Recommended prerequisites | *Basic knowledge of linear algebra and regression* |
| Type of course | *Lecture* |
| Weekly lecture hours (SWS) | *2* |
| ECTS credits | *2 ECTS* |
| Workload | *In total 60 h, 30 h course attendance, 30 h self-study* |
| Assessment (grading; pass/fail) | *graded* |
| Regular cycle | *Each semester* |
| Language of instruction | *English* |
| Contents: | *In this class, you will delve deeper into the fundamental principles of machine learning, acquiring the practical skills essential for effectively implementing these methods to tackle new challenges.*<br>*This course provides an overview of machine learning, covering:*<br>• *Supervised learning*<br>• *Unsupervised learning*<br>• *Best practices in machine learning.* |
| Learning outcome (competencies): | *After having successfully completed the course, the students should:*<br>• *Acquire a deep understanding of the foundational principles of machine learning, including relevant mathematical concepts.*<br>• *Gain comprehensive insights into a broad spectrum of learning algorithms.*<br>• *Get the ability to design and evaluate machine learning algorithms within various real-world contexts.* |
| Teaching methods | *☒Lecture ☐Group work*<br>*☒Exercises ☐Simulation*<br>*☐Video feedback ☐Others: Please click here for inserting text* |
| Assessment methods | *Written exam* |
| Recommended reading | *A. Géron, "Hands-on Machine Learning with Scikit-Learn, Keras & TensorFlow", O'Reilly Media, 2nd Edition, 2019.* |
| Additional information | |
| Recognition of credits | |