

## ZML-School on Machine Learning

September 10<sup>th</sup>-14<sup>th</sup>, 2018

### Program overview

|                  |                                     |  |
|------------------|-------------------------------------|--|
| <b>Monday</b>    | 8:30 - 9 a.m.<br>9 a.m. – 4:30 p.m. | Workshop Registration<br>Introduction to Machine Learning and Python |
| <b>Tuesday</b>   | 9 a.m. – 4:30 p.m.                  | Advanced Machine Learning Techniques                                 |
| <b>Wednesday</b> | 9 a.m. – 4:30 p.m.                  | Neural Networks and Deep Learning                                    |
| <b>Thursday</b>  | 9 a.m. – 4:30 p.m.                  | Computer Vision with Convolutional Neural Networks                   |
| <b>Friday</b>    | 9 a.m. – 4:30 p.m.                  | Reinforcement Learning   |

*Daily coffee breaks: 10:30-11 a.m. and 3-3:30 p.m.*

*Daily lunch & get-together: 12:30-13:30 p.m.*

Each day includes lectures on cutting-edge techniques in machine learning and 20-40% hands-on sessions. The Python programming language with state-of-the-art machine learning toolboxes will be used to develop and evaluate machine learning models on real-world problems.

The working language will be English.

**Target audience** IT professionals, emerging researchers, MSc students in technical programs

**Prerequisites** knowledge of general programming concepts  
proficiency in at least one higher programming language  
no previous experience with machine learning or data science is required

**Venue** Hochschule Heilbronn, Campus Sontheim, room tba