



## Thesis "AI-based Human Pose Estimation for an Augmented Reality Sports Application" (m/f)

We are an Augmented Reality (AR) start-up in Hamburg and are currently offering a supervised bachelor/master thesis on the topic "AI-based Human Pose Estimation for an Augmented Reality Sports Application" (m/f). The research should be conducted regarding and tested on our AR-Application PuttView, an AR-System for golf practice which we have successfully launched in the EU, US and Japan. Our dynamic team has relevant industry and sports experience.

We are looking for motivated students (m/f) who would like to contribute to the high quality and usability of our product. We will define the extent of this project according to your qualification and interests.

### Topics:

- Comparison between classical and deep-learning approaches for human pose estimation
- Analysis of current state-of-art approaches for human pose estimation using RGB-D data
- Investigating sensor fusion for improving correctness and robustness of pose prediction
- Prototype implementation and experimental evaluation of proposed approach

### Your Qualifications:

- Bachelor/Master-Student (m/f) in Computer Science or Software Engineering with a focus on Data Science, Artificial Intelligence, Robotics or similar
- Knowledge in object-oriented programming (Python/C++/C#)
- Familiarity with AI libraries and tools like TensorFlow, Keras, Theano
- Interest in cloud-computing services for machine learning by Microsoft/Google/Amazon
- Knowledge of OpenCV and/or Unity Game Development is a plus
- Self-motivated and proactive to maintain momentum and progress
- Ability to develop own concepts and quickly learn new technologies

### Our Offer:

- An exciting opportunity, where you can take on responsibility from the very beginning
- A powerful team with friendly and highly qualified colleagues
- Flexible working hours
- And much more...

Have we sparked your interest? Then please contact us with your application documents!

### Contact:

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