The Machine Learning and Data Analytics Lab (MaD Lab) at the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) in Germany invites applications for a **PhD position** in Artificial Intelligence in Biomedical Engineering:

## "Machine learning and data analytics in clinical psychology"

[redacted]

**Confidential, available upon request & after May 24**

**Requirements:**

We are looking for a doctoral candidate [redacted]. The goal [redacted] is to assess indicators of depression-relevant kinesthesia in clinically-depressed and healthy individuals with the help of [redacted] sensors and innovative machine learning and sensor fusion technology and to relate these indicators to depressive symptoms. Additionally, it will be investigated to what extent depressive symptoms can be automatically assessed with the help of body surface recordings and machine learning models. The interdisciplinary project will be conducted in close collaboration with experts from clinical psychology and electrical engineering.

Male or female applicants should have a master or comparable degree in Biomedical Engineering or a related discipline (e.g., Computer Science, Electrical Engineering). Knowledge of one or several of the areas (biomedical) signal processing, computer vision, sensor data fusion, machine learning is desired. The ideal candidate shows strong enthusiasm towards interdisciplinary research, especially in applying machine learning to problems in clinical psychology and has excellent teamworking abilities.

**Work Environment:**

MaD Lab is part of FAU, which is one of the largest universities in Germany. With its five faculties, FAU offers a scope of subjects ranging from Humanities to Law and Economics as well as Sciences, Medicine, and Engineering. FAU's mission "Knowledge in Motion" reflects the close collaboration between the single disciplines. FAU has been ranked the third year in a row the most innovative University in Germany (Reuters ranking). The MaD Lab researchers focus on machine learning algorithms and ubiquitous computing systems. Detailed information on ongoing projects is available on our website, via our publications and upon request.

The Lab is part of the Faculty of Engineering which awards the academic degree Doctor of Engineering (Dr.-Ing.).

**Program details and contact for application/questions:**

The project start date is July 1 or later. The position (100% TV-L E13) is available for at least 3 years, an extension is possible. Prospective applicants should apply with a cover letter and academic CV. Applications will be accepted until the position is filled.

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