

Topic	Emotion recognition in employee performance interviews
Abstract	In future, the process of hiring will be fully automated. With deep learning systems that can analyze facial reactions otherwise invisible to the eye, HR can try to know if someone is a good fit for the company. While the seven basic emotions like happy, sad, surprise, fear, angry, disgust and contempt can be recognized on one hand, confidence, curiosity and passion of the speaker can also be recognized among other characteristics. Based on this, the most appropriate candidate can be hired. In this thesis, you will be performing facial expression recognition in real-time for the seven basic emotions and you will be study how effective emotion recognition is in employee performance interviews.
Language	English
Exemplary Literature	<ul style="list-style-type: none"> • Rawal, N., Stock-Homburg, R., 2021, Facial emotion expressions in human-robot interaction: A survey. International Journal of social robotics (IJSR). • Koujan, M.R., Alharbawee, L., Giannakakis, G., Pugeault, N. and Roussos, A., 2020. Real-time Facial Expression Recognition" In The Wild" by Disentangling 3D Expression from Identity. arXiv preprint arXiv:2005.05509. • Deshmukh, S., Patwardhan, M. and Mahajan, A., 2016. Survey on real-time facial expression recognition techniques. Iet Biometrics, 5(3), pp.155-163. • Kotsia, I. and Pitas, I., 2005, September. Real time facial expression recognition from image sequences using support vector machines. In IEEE International Conference on Image Processing 2005 (Vol. 2, pp. II-966). IEEE. • Dandil, E. and Özdemir, R., 2019. Real-time facial emotion classification using deep learning. Data Science and Applications, 2(1), pp.13-17.
Additional information	<p>Kind of thesis: bachelor or master</p> <p>Start: as soon as possible</p> <p>Publication options: Excellent works should be submitted to international conferences or to the working paper series on Market-oriented Management of the chair of Marketing and HRM.</p>
Contact	<p>The exact focus can be determined individually with the supervisors. The work is supervised by Prof. Dr. Dr. Ruth Stock-Homburg and Niyati Rawal at the Chair of Marketing and Human Resources Management.</p> <p>Contact: niyati.rawal@tu-darmstadt.de</p>