DONALD PFAFFMANN

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WORK EXPERIENCE

German Research Center for Artificial Intelligence [**Python**]   **Oct. 2022 - now**
Research Assistant   *Saarbrücken, Germany*

· Working in the EXPECT project where the main goal is to develop an adaptive, self-learning interaction platform for human-robot collaboration, which is capable of decoding human intentions from human multimodal data, enabling implicit interaction.
· Example: Operating a robotic arm by communicating intention via EEG brainwave data and hand grasp positions.

Daimler Truck AG [**Python**]   **Feb. 2020 - Sept. 2020**
Bachelor Thesis Intern   *Stuttgart, Germany*

· Implemented Gradient Boosted Trees and FP-Growth, utilizing them in a combined effort to make highly structured and high dimensional data accessible for the purposes of association rule mining.
· Major challenges were data curation and workflow design.
· The thesis provided several interesting and useful rules as validated by a domain expert.

Springer Nature Technology and Publishing Solutions [**Java**]   **Feb. 2019 - Aug. 2019**
Intern   *Pune, India*

· Implemented a Convolutional Neural Network (CNN) that classifies plain text (e-mails) into time related categories using a static word embedding model.
· Major challenges were implementing and testing proper techniques of data pre-processing and Deep/Machine Learning algorithms.
· Work concluded with the CNN classifier achieving a F-Measure of 85% and the provision of a Named Entity Recognizer, which is capable of extracting and normalizing time entities.

STUDY PROJECTS

Mario-AI [**Java**], **Grade: 1.0**[1]   **2nd year, B.Sc.**
Student   *Zweibrücken, Germany*

· Implemented an autonomous agent operating Mario through randomly generated levels by utilizing A*-search in a team of two.
· The major challenge was coming up with a proper heuristic that maximizes the score of Mario.
· Placed third in an official competition held among all course members.

EDUCATION

Saarland University   *Oct. 2020 - now*
Pursuing M.Sc. in Data Science and Artificial Intelligence, **GPA: 1,9**   **Saarbrücken, Germany**

University of Applied Sciences Kaiserslautern   *Oct. 2016 - Oct. 2020*
B.Sc. in Applied Computer Science, **GPA: 1,4**   **Zweibrücken, Germany**

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[1]*On a scale of 1-5 (university level), where 1 is the best grade; approximately equivalent to an "A" grade.*