ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

Invitation to the Presentation about the Workplacement

Dott.ssa Sara Morgante Piano
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"Data labeling for supervised ML tasks"

S.1.05 Monday, 12 June 2023 2:00 p.m.

Abstract

Data labeling is a crucial process in machine learning tasks, as it plays a vital role in the performance and accuracy of the algorithms. Data labeling refers to the process of assigning meaningful annotations or labels to raw data, enabling machines to understand and interpret the information correctly. It involves various tasks, such as image annotation, text classification, object detection, sentiment analysis, and more. The process is highly time-consuming, requiring human annotators with domain knowledge and expertise. However, advancements in technology have led to the development of data labeling tools that bring several benefits, such as increasing the speed of the labeling process by automating repetitive tasks, providing intuitive user interfaces, and offering features for collaboration and quality control. During my internship at KAI I took part in a project that aims to select the best labeling tool for Infineon and I labeled data from the front-end production of the semiconductor manifacturing site from Infineon Technologies in Villach. The labeling tool selection required several steps:

literature research, requirements definition and ranking, tool selection and evaluation. For the labeling activity the main tasks have been: training to acquire the domain knowledge, detection of the critical issues and proposal of new solutions. Additionally, I labeled manufacturing data for a machine learning project. In my talk I will give some insights in these tasks and I will also highlight my key learnings.

Elena Resmerita and the Department of Mathematics look forward to seeing you at the talk!