Project: From Model to Production

Course Description

This project course will give students hands-on experience in the challenging task of bringing a predictive model into a production environment. Students will need to consider practical aspects such as data storage and processing, as well as constraints such as service availability and the maximum amount of time a model is allowed to run due to external project requirements. Through this course, students will obtain a holistic overview of the integration of predictive models into enterprise-grade applications or services.

Contents

▪ This project course focuses on the practical aspects of ensuring that a predictive model can run

in a production environment. Students will start with a chosen use case and model and then evaluate the requirements that need to be fulfilled so that the model can be used as part of an enterprise application or app. Students will need to evaluate requirements in terms of data storage, processing and throughput, and availability of the service, as well as the persistency, serving, and versioning of the model itself. Monitoring the execution of model predictions and raising alerts in cases of operational issues is a core part of building a reliable model pipeline. All relevant artifacts and considerations will be documented by the students in a project report.