

**Title:**

Automated machine learning in transactional data

**Abstract:**

Machine learning is a powerful tool, once data is available and algorithms are developed properly. Both prerequisites however, demand significant efforts from the data scientist, possibly translating into substantial project cost. We present our solution to the second prerequisite, the selection and tuning of algorithms suited to solve the machine learning task at hand. We show how time and cost for low value-creating tasks during machine learning projects can be minimized, for the benefit of spending time on high value-creating tasks such as interpreting results and translating them into business decisions.

The talk gives an introduction into PwC's proprietary solution for automated machine learning. By means of our Data Science Machine, we are able to find an optimal set of algorithm, hyperparameter tuning and selected features to solve a given problem. After introducing into the methodology of automated machine learning and giving a view on current and next developments, we present a use case resulting from the application of our approach to transactional data in corporations. Taking this case as a basis, we elaborate on other use cases in various business settings. We encourage you to share own challenges in your organizations during Q&A and to take home practical insights for your organization.