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Optimizing Hyperparameters for Machine Learning Algorithms in Production Jonathan Krauß, 2022-04-13 Machine learning ML offers the potential to train data based models and therefore to extract knowledge from data Due to an increase in networking and digitalization data and consequently the application of ML are growing in production The creation of ML models includes several tasks that need to be conducted within data integration data preparation modeling and deployment One key design decision in this context is the selection of the hyperparameters of an ML algorithm regardless of whether this task is conducted manually by a data scientist or automatically by an AutoML system Therefore data scientists and AutoML systems rely on hyperparameter optimization HPO techniques algorithms that automatically identify good hyperparameters for ML algorithms The selection of the HPO technique is of great relevance since it can improve the final performance of an ML model by up to 62 % and reduce its errors by up to 95 % compared to computing with default values As the selection of the HPO technique depends on different domain specific influences it becomes more and more popular to use decision support systems to facilitate this selection Since no approach exists which covers the requirements from the production domain the main research question of this thesis was Can a decision support system be developed that supports in the selecting of HPO techniques in the production domain

Automotive Mechatronics: Operational and Practical Issues B. T. Fijalkowski, 2010-11-25 This book presents operational and practical issues of automotive mechatronics with special emphasis on the heterogeneous automotive vehicle systems approach and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems As the complexity of automotive vehicles increases so does the dearth of high competence multi disciplined automotive scientists and engineers This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and engineers working in this environment Divided into two volumes and five parts Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students experimental hands on abilities stimulating and promoting experience among high education institutes and produce more automotive mechatronics and automation engineers The main subject that are treated are VOLUME I RBW or XBW unibody or chassis motion mechatronic control hypersystems DBW AWD propulsion mechatronic control systems BBW AWB dispulsion mechatronic control systems VOLUME II SBW AWS diversion mechatronic control systems ABW AWA suspension mechatronic control systems This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics powertrains brakes steering and shock absorbers dampers Basic knowledge of college mathematics college physics and knowledge of the functionality of automotive vehicle basic propulsion dispulsion conversion and suspension systems is required

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