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Automated Machine Learning with TPOT in Python William Smith, 2025-08-20 Automated Machine Learning with TPOT in Python Harnessing the full potential of machine learning often requires intricate expertise iterative model tuning and laborious pipeline engineering Automated Machine Learning with TPOT in Python presents a comprehensive practical guide to automating these demanding tasks with TPOT one of the leading open source AutoML frameworks in the Python ecosystem Opening with the motivation theory and evolution of AutoML the book demystifies key concepts like automated model selection hyperparameter optimization and sophisticated pipeline composition while offering crucial comparisons among prominent AutoML libraries and their real world impact The text delves deeply into the inner workings of TPOT including its philosophy architectural modularity and pioneering use of genetic programming for search and optimization revealing how users can write extend and manage automated workflows tailored to their needs Readers are skillfully guided through robust environment setup best practices in data preprocessing advanced pipeline optimization and domain driven customization ensuring both reliability and reproducibility in projects of any scale With dedicated chapters on pipeline interpretation export and integration the book equips practitioners with the tools to transition smoothly from experimental design to production deployment while thoughtfully addressing explainability and compliance for regulated environments Balancing technical rigor with practical application the book features advanced use cases and sector specific case studies spanning bioinformatics energy finance IoT retail and healthcare Through hands on examples and lessons learned from real world deployments readers gain insights into scaling AutoML with distributed and cloud native solutions integrating TPOT into modern MLOps pipelines and stewarding deployed models with strong governance Whether you are a data scientist engineer or technical leader this book serves as the definitive blueprint for accelerating machine learning innovation with intelligent automation

Accelerating Network Functions Using Reconfigurable Hardware Ralf Kundel, 2024-04-18 This book reports on new concepts and methods to design network functions on programmable hardware to accelerate connectivity First it introduces the host bypassing concept for improved integration of hardware accelerators in computer systems operating 5G radio access networks This novel concept bypassed the system's main memory and established direct connectivity between the accelerator and network interface card This concept leads to improved throughput and significantly lowered latency jitter compared to existing methods Second the book analyzes different programmable hardware technologies for hardware accelerated Internet subscriber handling including three P4 programmable platforms and FPGAs It shows that all the approaches have excellent performance and are suitable for Internet access creation In turn it presents a fully fledged accelerated User Plane Function UPF designed upon these concepts and its testing in an end to end 5G standalone network Third it analyses and demonstrates the usability of Active Queue Management AQM algorithms on programmable hardware as an expansion to the access edge It shows the feasibility of the CoDel AQM algorithm and

discusses the challenges and constraints to be considered when limited hardware is used resulting in significant improvements in the Quality of Service Furthermore the P4STA measurement framework is introduced a network function benchmarking concept combining precise hardware based time measurement methods with software based load generation to simultaneously ensure high measurement accuracy and flexibility Researchers and professionals will find in this book new solutions to improve both fixed and mobile internet access networks offering an informative and inspiring reading for researchers and professionals involved in building the next generation of access edge networks and underlying technology

Nelson's Directory of Investment Research ,2006 *F&S Index United States Annual* ,1999 **GPU gems**
Randima Fernando,2006

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