

Bayesian Reasoning Machine Learning Solution

The Machine Learning Solutions Architect Handbook
Optimizing AI and Machine Learning
Solutions
Machine Learning Solutions for Inverse Problems: Part A
Forensic Intelligence and Deep
Learning Solutions in Crime Investigation
A First Course in Machine Learning - Solutions
Manual
Deep Learning For Dummies
Shallow Learning vs. Deep Learning
Applied Machine Learning
Solutions with Python
Intelligent Systems Design and Applications
The Machine Learning Solutions
Architect Handbook
Comparative Optimality of Reinforcement Learning Solutions to Continuous,
Unbounded State Control Problems with Bounded Input
Hands-On Machine Learning
Recommender Systems with Apache Spark
Machine Learning for Sustainable Energy
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Machine Learning Engineering with Python
Machine Learning for Healthcare Analytics
Projects
The Machine Learning Solutions Architect Handbook
Machine Learning Solutions
Hands-On
Machine Learning with Azure
Machine Learning in Microservices
Transactional Machine Learning
with Data Streams and AutoML
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Machine Learning in Microservices
Transactional Machine Learning with Data Streams and AutoML
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build highly secure and scalable machine learning platforms to support the fast paced adoption of machine learning solutions key features explore different ml tools and frameworks to solve large scale machine learning challenges in the cloud build an efficient data science environment for data exploration model building and model training learn how to implement bias detection privacy and explainability in ml model development book descriptionwhen equipped with a highly scalable machine learning ml platform organizations can quickly scale the delivery of ml products for faster business value realization there is a huge demand for skilled ml solutions architects in different industries and this handbook will help you master the design patterns architectural considerations and the latest technology insights you ll need to become one you ll start by understanding ml fundamentals and how ml can be applied to solve real world business problems once you ve explored a few leading problem solving ml algorithms this book will help you tackle data management and get the most out of ml libraries such as tensorflow and pytorch using open source technology such as kubernetes kubeflow to build a data science environment and ml pipelines will be covered next before moving on to building an enterprise ml architecture using amazon services aws you ll also learn about security and governance considerations advanced ml engineering techniques and how to apply bias detection explainability and privacy in ml model development by the end of this book you ll be able to design and build an ml platform to support common use cases and architecture patterns like a true professional what you will learn apply ml methodologies to solve business problems design a practical enterprise ml platform architecture implement mlops for ml workflow automation build an end to end data management architecture using aws train large scale ml models and optimize model inference latency create a business application using an ai service and a custom ml model use aws services to detect data and model bias and explain models who this book is for this book is for data scientists data engineers cloud architects and machine learning enthusiasts who want to become machine learning solutions architects you ll need basic knowledge of the python programming language aws linear algebra probability and networking concepts before you get started with this handbook

build high impact ml ai solutions by optimizing each step key features build and fine tune models

for maximum performance practical tips to make your own state of the art ai ml models ml ai problem solving tips with multiple case studies to tackle real world challenges description this book approaches data science solution building using a principled framework and case studies with extensive hands on guidance it will teach the readers optimization at each step whether it is problem formulation or hyperparameter tuning for deep learning models this book keeps the reader pragmatic and guides them toward practical solutions by discussing the essential ml concepts including problem formulation data preparation and evaluation techniques further the reader will be able to learn how to apply model optimization with advanced algorithms hyperparameter tuning and strategies against overfitting they will also benefit from deep learning by optimizing models for image processing natural language processing and specialized applications the reader can put theory into practice with hands on case studies and code examples reinforcing their understanding with this book the reader will be able to create high impact high value ml ai solutions by optimizing each step of the solution building process which is the ultimate goal of every data science professional what you will learn end to end solutions to ml ai problems data augmentation and transfer learning optimizing ai ml solutions at each step of development multiple hands on real case studies choose between various ml ai models who this book is for this book empowers data scientists developers and ai enthusiasts at all levels to unlock the full potential of their ml solutions this guide equips you to become a confident ai optimization expert table of contents 1 optimizing a machine learning artificial intelligence solution 2 ml problem formulation setting the right objective 3 data collection and pre processing 4 model evaluation and debugging 5 imbalanced machine learning 6 hyper parameter tuning 7 parameter optimization algorithms 8 optimizing deep learning models 9 optimizing image models 10 optimizing natural language processing models 11 transfer learning

machine learning solutions for inverse problems part a volume 26 in the handbook of numerical analysis highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics including data driven approaches for generalized lasso problems implicit regularization of the deep inverse prior via inertial gradient flow generalized hardness of approximation hallucinations and trustworthiness in machine learning for inverse problems energy based models for inverse imaging problems regularization theory of stochastic iterative methods for solving inverse problems and more other sections cover advances in identifying differential equations from noisy data observations the complete electrode model for electrical impedance tomography a comparative study of deep learning and analytical methods

learned iterative schemes neural network architectures for operator learning jacobian free backpropagation for unfolded schemes with convergence guarantees and operator learning meets inverse problems a probabilistic perspective provides the authority and expertise of leading contributors from an international board of authors presents the latest release in the handbook of numerical analysis series updated release includes the latest information on the machine learning solutions for inverse problems

the massive advancement in various sectors of technology including forensic science is no exception integration of deep learning dl and artificial intelligence ai in forensic intelligence plays a vital role in the transformational shift in the effective approach towards the investigation of crimes and solving criminal investigations with foolproof evidence as crimes grow increasingly sophisticated traditional investigative tactics may be inadequate to grapple with the complexities of transnational criminal organizations dl uses scientific tools for the recognition of patterns image and speech analysis and predictive modeling among others which are necessary to help solve crimes by studying fingerprints behavioral profiling and dna in digital forensics ai powered tools provide observations that were inconceivable before now forensic intelligence and deep learning solutions in crime investigation discusses the numerous potential applications of deep learning and ai in forensic science it explores how deep learning algorithms and ai technologies transform the role that forensic scientists and investigators play by enabling them to efficiently process and analyze vast amounts of data with very high accuracy in a short duration covering topics such as forensic ballistics evidence processing and crime scene analysis this book is an excellent resource for forensic scientists investigators law enforcement criminal justice professionals computer scientists legal professionals policy makers professionals researchers scholars academicians and more

take a deep dive into deep learning deep learning provides the means for discerning patterns in the data that drive online business and social media outlets deep learning for dummies gives you the information you need to take the mystery out of the topic and all of the underlying technologies associated with it in no time you ll make sense of those increasingly confusing algorithms and find a simple and safe environment to experiment with deep learning the book develops a sense of precisely what deep learning can do at a high level and then provides examples of the major deep learning application types includes sample code provides real world examples within the approachable text offers hands on activities to make learning easier shows

you how to use deep learning more effectively with the right tools this book is perfect for those who want to better understand the basis of the underlying technologies that we use each and every day

this book explores the ongoing debate between shallow and deep learning in the field of machine learning it provides a comprehensive survey of machine learning methods from shallow learning to deep learning and examines their applications across various domains shallow learning vs deep learning a practical guide for machine learning solutions emphasizes that the choice of a machine learning approach should be informed by the specific characteristics of the dataset the operational environment and the unique requirements of each application rather than being influenced by prevailing trends in each chapter the book delves into different application areas such as engineering real world scenarios social applications image processing biomedical applications anomaly detection natural language processing speech recognition recommendation systems autonomous systems and smart grid applications by comparing and contrasting the effectiveness of shallow and deep learning in these areas the book provides a framework for thoughtful selection and application of machine learning strategies this guide is designed for researchers practitioners and students who seek to deepen their understanding of when and how to apply different machine learning techniques effectively through comparative studies and detailed analyses readers will gain valuable insights to make informed decisions in their respective fields

a problem focused guide for tackling industrial machine learning issues with methods and frameworks chosen by experts key features popular techniques for problem formulation data collection and data cleaning in machine learning comprehensive and useful machine learning tools such as mlflow streamlit and many more covers numerous machine learning libraries including tensorflow fastai scikit learn pandas and numpy description this book discusses how to apply machine learning to real world problems by utilizing real world data in this book you will investigate data sources become acquainted with data pipelines and practice how machine learning works through numerous examples and case studies the book begins with high level concepts and implementation with code and progresses towards the real world of ml systems it briefly discusses various concepts of statistics and linear algebra you will learn how to formulate a problem collect data build a model and tune it you will learn about use cases for data analytics computer vision and natural language processing you will also explore nonlinear architecture

thus enabling you to build models with multiple inputs and outputs you will get trained on creating a machine learning profile various machine learning libraries statistics and fast api throughout the book you will use python to experiment with machine learning libraries such as tensorflow scikit learn spacy and fastai the book will help train our models on both kaggle and our datasets what you will learn construct a machine learning problem evaluate the feasibility and gather and clean data learn to explore data first select and train machine learning models fine tune the chosen model deploy and monitor it in production discover popular models for data analytics computer vision and natural language processing create a machine learning profile and contribute to the community who this book is for this book caters to beginners in machine learning software engineers and students who want to gain a good understanding of machine learning concepts and create production ready ml systems this book assumes you have a beginner level understanding of python

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this book highlights recent research on intelligent systems and machine learning based solutions it presents 46 selected papers focused on industrial applications from the 23rd international conference on intelligent systems design and applications isda 2023 which was held in 5 different cities namely olten switzerland porto portugal kaunas lithuania greater noida india kochi india and in online mode the isda is a premier conference in the field of artificial intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry isda 2023 had contributions by authors from 64 countries this book offers a valuable reference guide for all industrial specialists scientists academicians researchers students and practitioners in the field of artificial intelligence and industrial applications

design build and secure scalable machine learning ml systems to solve real world business problems with python and aws purchase of the print or kindle book includes a free pdf ebook key features go in depth into the ml lifecycle from ideation and data management to deployment

and scaling apply risk management techniques in the ml lifecycle and design architectural patterns for various ml platforms and solutions understand the generative ai lifecycle its core technologies and implementation risks book description david ping head of genai and ml solution architecture for global industries at aws provides expert insights and practical examples to help you become a proficient ml solutions architect linking technical architecture to business related skills you ll learn about ml algorithms cloud infrastructure system design mlops and how to apply ml to solve real world business problems david explains the generative ai project lifecycle and examines retrieval augmented generation rag an effective architecture pattern for generative ai applications you ll also learn about open source technologies such as kubernetes kubeflow for building a data science environment and ml pipelines before building an enterprise ml architecture using aws as well as ml risk management and the different stages of ai ml adoption the biggest new addition to the handbook is the deep exploration of generative ai by the end of this book you ll have gained a comprehensive understanding of ai ml across all key aspects including business use cases data science real world solution architecture risk management and governance you ll possess the skills to design and construct ml solutions that effectively cater to common use cases and follow established ml architecture patterns enabling you to excel as a true professional in the field what you will learn apply ml methodologies to solve business problems across industries design a practical enterprise ml platform architecture gain an understanding of ai risk management frameworks and techniques build an end to end data management architecture using aws train large scale ml models and optimize model inference latency create a business application using artificial intelligence services and custom models dive into generative ai with use cases architecture patterns and rag who this book is for this book is for solutions architects working on ml projects ml engineers transitioning to ml solution architect roles and mlops engineers additionally data scientists and analysts who want to enhance their practical knowledge of ml systems engineering as well as ai ml product managers and risk officers who want to gain an understanding of ml solutions and ai risk management will also find this book useful a basic knowledge of python aws linear algebra probability and cloud infrastructure is required before you get started with this handbook

comprehensive insights into integrating modern engineering techniques with machine learning and renewable energy to create a more sustainable world through an interdisciplinary approach machine learning for sustainable energy solutions provides comprehensive insights into integrating modern engineering techniques such as machine learning ml artificial intelligence ai

nanotechnology digital twins and the internet of things iot with renewable energy each chapter is based on modern research and enhanced by experimental or simulated data the book offers a thorough review of several energy storage techniques helping readers fully grasp the larger background in which chemical thermal electrical mechanical and machine learning technologies may be used to evaluate categorize and maximize different storage systems the book also reviews the confluence of the internet of things iot and machine learning for real time digestive parameter control and monitoring along with the cooperative importance of mathematical modeling and artificial intelligence in maximizing reactor performance gas output and operational stability machine learning for sustainable energy solutions includes information on bio based energy generation from biomass gasification and biohydrogen usage of hybrid approaches support vector machines and neural networks to anticipate and maximize bioenergy production from challenging organic feedstocks hydrogen powered dual fuel engines covering response surface methodology rsm for multi attribute optimization scalable experimentally confirmed ml based solutions for long standing problems like sedimentation pumping losses and stability of nanofluids the growing and important use of nanotechnology in energy systems particularly in engine emissions management energy storage and heat transfer improvements machine learning for sustainable energy solutions is an essential reference for professionals researchers educators and students working in the fields of energy environmental science and machine learning the book also helps decision makers in various fields by providing them the required knowledge to make informed choices on sustainable practices and policies

supercharge the value of your machine learning models by building scalable and robust solutions that can serve them in production environments key features explore hyperparameter optimization and model management tools learn object oriented programming and functional programming in python to build your own ml libraries and packages explore key ml engineering patterns like microservices and the extract transform machine learn etml pattern with use cases book descriptionmachine learning engineering is a thriving discipline at the interface of software development and machine learning this book will help developers working with machine learning and python to put their knowledge to work and create high quality machine learning products and services machine learning engineering with python takes a hands on approach to help you get to grips with essential technical concepts implementation patterns and development methodologies to have you up and running in no time you ll begin by understanding key steps of the machine learning development life cycle before moving on to practical illustrations and

getting to grips with building and deploying robust machine learning solutions as you advance you'll explore how to create your own toolsets for training and deployment across all your projects in a consistent way the book will also help you get hands on with deployment architectures and discover methods for scaling up your solutions while building a solid understanding of how to use cloud based tools effectively finally you'll work through examples to help you solve typical business problems by the end of this book you'll be able to build end to end machine learning services using a variety of techniques and design your own processes for consistently performing machine learning engineering what you will learn find out what an effective ml engineering process looks like uncover options for automating training and deployment and learn how to use them discover how to build your own wrapper libraries for encapsulating your data science and machine learning logic and solutions understand what aspects of software engineering you can bring to machine learning gain insights into adapting software engineering for machine learning using appropriate cloud technologies perform hyperparameter tuning in a relatively automated way who this book is for this book is for machine learning engineers data scientists and software developers who want to build robust software solutions with machine learning components if you're someone who manages or wants to understand the production life cycle of these systems you'll find this book useful intermediate level knowledge of python is necessary

create real world machine learning solutions using numpy pandas matplotlib and scikit learn key features develop a range of healthcare analytics projects using real world datasets implement key machine learning algorithms using a range of libraries from the python ecosystem accomplish intermediate to complex tasks by building smart ai applications using neural network methodologies book description machine learning ml has changed the way organizations and individuals use data to improve the efficiency of a system ml algorithms allow strategists to deal with a variety of structured unstructured and semi structured data machine learning for healthcare analytics projects is packed with new approaches and methodologies for creating powerful solutions for healthcare analytics this book will teach you how to implement key machine learning algorithms and walk you through their use cases by employing a range of libraries from the python ecosystem you will build five end to end projects to evaluate the efficiency of artificial intelligence ai applications for carrying out simple to complex healthcare analytics tasks with each project you will gain new insights which will then help you handle healthcare data efficiently as you make your way through the book you will use ml to detect

cancer in a set of patients using support vector machines svms and k nearest neighbors knn models in the final chapters you will create a deep neural network in keras to predict the onset of diabetes in a huge dataset of patients you will also learn how to predict heart diseases using neural networks by the end of this book you will have learned how to address long standing challenges provide specialized solutions for how to deal with them and carry out a range of cognitive tasks in the healthcare domain what you will learn explore super imaging and natural language processing nlp to classify dna sequencing detect cancer based on the cell information provided to the svm apply supervised learning techniques to diagnose autism spectrum disorder asd implement a deep learning grid and deep neural networks for detecting diabetes analyze data from blood pressure heart rate and cholesterol level tests using neural networks use ml algorithms to detect autistic disorders who this book is for machine learning for healthcare analytics projects is for data scientists machine learning engineers and healthcare professionals who want to implement machine learning algorithms to build smart ai applications basic knowledge of python or any programming language is expected to get the most from this book

improve your product knowledge and ownership while building secure and scalable machine learning platforms purchase of the print or kindle book includes a free pdf ebook key features solve large scale machine learning challenges in the cloud with a variety of open source and aws tools and frameworks apply risk management techniques in the machine learning lifecycle understand the key challenges and risks around implementing generative ai and learn architecture patterns for some solutions book description david ping head of ml solutions architecture at aws provides valuable insights and practical examples for becoming a highly skilled ml solutions architect linking technical architecture to business related skills you ll start by understanding ml fundamentals and how ml can be applied to solve real world business problems once you ve explored a few leading problem solving ml algorithms this book will focus on carefully selected and updated topics like ml algorithms including a newly added section on generative ai and large language models you ll also learn about open source technology such as kubernetes kubeflow to build a data science environment and ml pipelines before moving on to building an enterprise ml architecture using amazon services aws in this latest edition david has updated the entire book to incorporate the latest advancements in science technology and solution patterns the biggest new addition to the handbook is a comprehensive exploration of ml risk management generative ai and a deep understanding of the different stages of ai ml adoption allowing you to assess your company s position on its ai ml journey by the end of this

book you will have gained a comprehensive understanding of ai ml across all key aspects including business use cases data science technology real world solutions architecture risk management governance and the overall ai ml journey moreover you will possess the skills to design and construct ml solutions and platforms that effectively cater to common use cases and follow established architecture patterns enabling you to excel as a true professional in the field what you will learn apply ml methodologies to solve business problems design a practical enterprise ml platform architecture gain a deep understanding of ai risk management frameworks and techniques build an end to end data management architecture using aws train large scale ml models and optimize model inference latency create a business application using ai services and custom models dive into generative ai with use cases architecture patterns risks and ethical considerations who this book is for this book is for data scientists data engineers cloud architects and machine learning enthusiasts who want to become machine learning solutions architects also this book is a great companion for ai ml product managers and risk officers who want to gain an understanding of ml solutions and ai risk management and ai ml solutions architects who want to expand their scope of knowledge around ai ml you ll need basic knowledge of the python programming language aws linear algebra probability and networking concepts before you get started with this handbook

practical hands on solutions in python to overcome any problem in machine learning about this book master the advanced concepts methodologies and use cases of machine learning build ml applications for analytics nlp and computer vision domains solve the most common problems in building machine learning models who this book is for this book is for the intermediate users such as machine learning engineers data engineers data scientists and more who want to solve simple to complex machine learning problems in their day to day work and build powerful and efficient machine learning models a basic understanding of the machine learning concepts and some experience with python programming is all you need to get started with this book what you will learn select the right algorithm to derive the best solution in ml domains perform predictive analysis efficiently using ml algorithms predict stock prices using the stock index value perform customer analytics for an e commerce platform build recommendation engines for various domains build nlp applications for the health domain build language generation applications using different nlp techniques build computer vision applications such as facial emotion recognition in detail machine learning ml helps you find hidden insights from your data without the need for explicit programming this book is your key to solving any kind of ml

problem you might come across in your job you'll encounter a set of simple to complex problems while building ml models and you'll not only resolve these problems but you'll also learn how to build projects based on each problem with a practical approach and easy to follow examples the book includes a wide range of applications from analytics and nlp to computer vision domains some of the applications you will be working on include stock price prediction a recommendation engine building a chat bot a facial expression recognition system and many more the problem examples we cover include identifying the right algorithm for your dataset and use cases creating and labeling datasets getting enough clean data to carry out processing identifying outliers overfitting datasets hyperparameter tuning and more here you'll also learn to make more timely and accurate predictions in addition you'll deal with more advanced use cases such as building a gaming bot building an extractive summarization tool for medical documents and you'll also tackle the problems

implement machine learning cognitive services and artificial intelligence solutions by leveraging azure cloud technologies key features learn advanced concepts in azure ml and the cortana intelligence suite architecture explore ml server using sql server and hdinsight capabilities implement various tools in azure to build and deploy machine learning models book description implementing machine learning ml and artificial intelligence ai in the cloud had not been possible earlier due to the lack of processing power and storage however azure has created ml and ai services that are easy to implement in the cloud hands on machine learning with azure teaches you how to perform advanced ml projects in the cloud in a cost effective way the book begins by covering the benefits of ml and ai in the cloud you will then explore microsoft's team data science process to establish a repeatable process for successful ai development and implementation you will also gain an understanding of ai technologies available in azure and the cognitive services apis to integrate them into bot applications this book lets you explore prebuilt templates with azure machine learning studio and build a model using canned algorithms that can be deployed as web services the book then takes you through a preconfigured series of virtual machines in azure targeted at ai development scenarios you will get to grips with the ml server and its capabilities in sql and hdinsight in the concluding chapters you'll integrate patterns with other non ai services in azure by the end of this book you will be fully equipped to implement smart cognitive actions in your models what you will learn discover the benefits of leveraging the cloud for ml and ai use cognitive services apis to build intelligent bots build a model using canned algorithms from microsoft and deploy it as a web service deploy virtual machines in

ai development scenarios apply r python sql server and spark in azure build and deploy deep learning solutions with cntk mmlspark and tensorflow implement model retraining in iot streaming and blockchain solution explore best practices for integrating ml and ai functions with adla and logic apps who this book is for if you are a data scientist or developer familiar with azure ml and cognitive services and want to create smart models and make sense of data in the cloud this book is for you you'll also find this book useful if you want to bring powerful machine learning services into your cloud applications some experience with data manipulation and processing using languages like sql python and r will aid in understanding the concepts covered in this book

implement real world machine learning in a microservices architecture as well as design build and deploy intelligent microservices systems using examples and case studies purchase of the print or kindle book includes a free pdf ebook key features design build and run microservices systems that utilize the full potential of machine learning discover the latest models and techniques for combining microservices and machine learning to create scalable systems implement machine learning in microservices architecture using open source applications with pros and cons book description with the rising need for agile development and very short time to market system deployments incorporating machine learning algorithms into decoupled fine grained microservices systems provides the perfect technology mix for modern systems machine learning in microservices is your essential guide to staying ahead of the curve in this ever evolving world of technology the book starts by introducing you to the concept of machine learning microservices architecture msa and comparing msa with service based and event driven architectures along with how to transition into msa next you'll learn about the different approaches to building msa and find out how to overcome common practical challenges faced in msa design as you advance you'll get to grips with machine learning ml concepts and see how they can help better design and run msa systems finally the book will take you through practical examples and open source applications that will help you build and run highly efficient agile microservices systems by the end of this microservices book you'll have a clear idea of different models of microservices architecture and machine learning and be able to combine both technologies to deliver a flexible and highly scalable enterprise system what you will learn recognize the importance of msa and ml and deploy both technologies in enterprise system explore msa enterprise systems and their general practical challenges discover how to design and develop microservices architecture understand the different ai algorithms types and models and how they can be applied to msa identify and overcome common msa deployment

challenges using ai and ml algorithms explore general open source and commercial tools commonly used in msa enterprise systems who this book is for this book is for machine learning solution architects system and machine learning developers and system and solution integrators of private and public sector organizations basic knowledge of devops system architecture and artificial intelligence ai systems is assumed and working knowledge of the python programming language is highly desired

understand how to apply auto machine learning to data streams and create transactional machine learning tml solutions that are frictionless require minimal to no human intervention and elastic machine learning solutions that can scale up or down by controlling the number of data streams algorithms and users of the insights this book will strengthen your knowledge of the inner workings of tml solutions using data streams with auto machine learning integrated with apache kafka transactional machine learning with data streams and automl introduces the industry challenges with applying machine learning to data streams you will learn the framework that will help you in choosing business problems that are best suited for tml you will also see how to measure the business value of tml solutions you will then learn the technical components of tml solutions including the reference and technical architecture of a tml solution this book also presents a tml solution template that will make it easy for you to quickly start building your own tml solutions specifically you are given access to a tml python library and integration technologies for download you will also learn how tml will evolve in the future and the growing need by organizations for deeper insights from data streams by the end of the book you will have a solid understanding of tml you will know how to build tml solutions with all the necessary details and all the resources at your fingertips you will discover transactional machine learning measure the business value of tml choose tml use cases design technical architecture of tml solutions with apache kafka work with the technologies used to build tml solutions build transactional machine learning solutions with hands on code together with apache kafka in the cloud

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