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Personal Best English Edition

Dušan Stojanović

Personal Best English Edition:

Modern Web Development with Go Dušan Stojanović, 2023-03-02 Build fast scalable web server applications by harnessing the power of solution driven programming with Go KEY FEATURES Understanding the core concepts of the Go programming language Designing and development of modern Web Server applications Dealing with different kinds of database management solutions Deploying applications with cutting edge technologies Monitoring and maintenance of applications with popular tools DESCRIPTION In this book we are going to learn how to design develop and deploy Web Server Applications using the Go programming language In recent years Go has become the industrial standard for these kinds of applications so by learning this a lot of good opportunities can be opened in the market All subjects will be covered through various practical examples This book will cover the state of the art technology for the development of Web Applications and follow all industrial standards At the beginning we will do the preparation for development Here we will learn the basics of the Go programming language the basics of Web Servers how to set up a project with Go and how to design software solutions Later we will concentrate more on development We will learn how to develop the application designed in the previous chapters how to use different types of databases how to test our application and how to make it secure At the end of the book we will show how to deploy the application and monitor it after deployment After reading this book the readers can independently develop Web Server Applications or include themselves in already started projects WHAT WILL YOU LEARN Solve common problems with the Go programming language Be familiar with the terms related to server applications Understand the phases in the software development process Be able to independently design software solutions and use some best practices Be familiar with multiple different database management solutions relational and NoSQL and be able to predict which best suits their needs Learn how to deploy applications Understand and know how to apply monitoring and alerting concepts WHO THIS BOOK IS FOR The book is for beginners and experienced developers who want to learn and have a thorough introduction to web development using the Go programming language With a lot of practical examples and guidelines on how to install and configure specific tools beginners will easily understand and follow the content covered in this book On the other hand more experienced developers will certainly find some useful tips and tricks TABLE OF CONTENTS 1 Basic Concepts of Go programming language 2 Advanced Concepts of Go programming language 3 Web Servers 4 Setting up a project with Go programming language 5 Design of Web Applications 6 Application layers 7 Relational databases and Repository layer 8 NoSQL databases and Repository layer 9 Testing 10 Security 11 Deploying Web Application 12 Monitoring and Alerting *Ultimate Genetic Algorithms with Python* Indrajit Kar, Zonunfeli Ralte, 2025-09-22 TAGLINE Harness Genetic Algorithms to Build the Next Generation of Adaptive AI KEY FEATURES Step by step tutorials on Genetic Algorithms using PyGAD and DEAP Real world Genetic Algorithm applications in ML DL NLP CV and RL Advanced coverage of evolutionary and metaheuristic algorithms Integration of Genetic Algorithms with generative

and agent based AI systems

DESCRIPTION Genetic Algorithms GAs are nature inspired optimization tools that help AI systems adapt improve and solve complex problems efficiently

Ultimate Genetic Algorithms with Python explains elaborately the fundamentals of GAs to practical Python based implementation using PyGAD and DEAP

The book starts with a solid foundation explaining how evolutionary principles can be applied to optimization tasks search problems and model improvement

You will also explore GA applications across multiple AI domains optimizing machine learning workflows evolving neural network architectures in deep learning enhancing feature selection in NLP improving performance in computer vision and guiding exploration strategies in reinforcement learning

Each application chapter includes step by step coding examples performance comparisons and tuning techniques

The later sections focus on advanced metaheuristics swarm intelligence and integrating GAs with generative and agent based AI systems

You will also learn how to design self evolving multi agent frameworks leverage swarm based methods and connect GAs to next gen AI architectures such as Model Context Protocols MCP

Thus by the end of the book you will have developed all the skills to design implement and scale GA driven solutions for real world AI challenges

Hence evolve your AI solutions start building with Genetic Algorithms today

WHAT WILL YOU LEARN

Master the fundamentals and components of Genetic Algorithms

Implement GAs in Python using PyGAD DEAP and PyTorch

Apply GAs for optimization feature selection and neural architecture search

Enhance AI workflows in ML DL NLP CV and RL with GAs

Explore metaheuristic and swarm based algorithms for complex problem solving

Integrate GAs into generative multi agent and self evolving AI systems

WHO IS THIS BOOK FOR

This book is tailored for data scientists AI ML engineers researchers and advanced students aiming to apply Genetic Algorithms to real world AI challenges

It is also best suited for professionals in optimization generative AI and agent based systems

Readers should have basic Python programming skills and foundational knowledge of machine learning concepts

Hence whether you are a beginner seeking a solid foundation or an experienced practitioner aiming to deepen your expertise in evolutionary computation this handbook provides a practical and in depth resource to enhance your skills and deliver impactful AI solutions

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Mastering Search Algorithms with Python Pooja Baraskar, Abhishek Nandy, 2024-07-20

DESCRIPTION In today's era of Artificial Intelligence and the vast expanse of big data understanding how to effectively utilize search algorithms has become crucial

Every day billions of searches happen online influencing everything from social media recommendations to critical decisions in fields like finance

and healthcare. Behind these seemingly straightforward searches are powerful algorithms that determine how information is discovered, organized, and applied, fundamentally shaping our digital interactions. This book covers various search algorithms, starting with linear and binary searches, analyzing their performance and implementing them in Python. It progresses to graph traversal algorithms like DFS and BFS, including Python examples and explores the A* algorithm for optimal pathfinding. Advanced search techniques and optimization best practices are discussed along with neural network applications like gradient descent. You will also learn to create interactive visualizations using Streamlit and explore real world applications in gaming, logistics, and Machine Learning. By the end, readers will have a solid grasp of search algorithms, enabling them to implement them efficiently in Python and tackle complex search problems with ease.

KEY FEATURES

Comprehensive coverage of a wide range of search algorithms, from basic to advanced. Hands-on Python code examples for each algorithm, fostering practical learning. Insights into the real world applications of each algorithm, preparing readers for real world challenges.

WHAT YOU WILL LEARN

Understand basic to advanced search algorithms in Python that are crucial for information retrieval. Learn different search methods like binary search and A* search and their pros and cons. Use Python's visualization tools to see algorithms in action for better understanding. Enhance learning with practical examples, challenges, and solutions to boost programming skills.

WHO THIS BOOK IS FOR

This book is for software engineers, data scientists, and computer science students looking to master search algorithms with Python to optimize search algorithms in today's data-driven environments.

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- 1 Introduction to Search Algorithms
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[Advancing Sports and Exercise via Innovation](#) Garry Kuan, Yu-Kai Chang, Tony Morris, Teo Eng Wah, Rabiu Muazu Musa, Anwar P. P. Abdul Majeed, 2023-05-31

This book presents the proceedings of the 9th Asian South Pacific Association of Sport Psychology International Congress (ASPASP 2022) in Kuching, Malaysia, which entails the different sporting innovation themes, namely Applied Sport and Social Psychology, Health and Exercise, Motor Control and Learning, Counselling and Clinical Psychology, Biomechanics, Data Mining, and Machine Learning in Sports, amongst others. It presents the state of the art technological advancements towards the aforesaid themes and provides a platform to shape the future direction of sport science specifically in the field of sports and exercise psychology.

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