



# Machine Learning Applications In Software Engineering

**Andrew Kusiak**



## **Machine Learning Applications In Software Engineering:**

**Machine Learning Applications in Software Engineering** Du Zhang, Jeffrey J. P. Tsai, 2005 A collection of previously published articles from a variety of publications *Advances in Machine Learning Applications in Software Engineering* Zhang, Du, Tsai, Jeffrey J.P., 2006-10-31 This book provides analysis characterization and refinement of software engineering data in terms of machine learning methods It depicts applications of several machine learning approaches in software systems development and deployment and the use of machine learning methods to establish predictive models for software quality while offering readers suggestions by proposing future work in this emerging research field Provided by publisher

**Boosting Software Development Using Machine Learning** Tirimula Rao Benala, Satchidananda Dehuri, Rajib Mall, Margarita N. Favorskaya, 2025-05-23 This book explores the transformative effects of AI and ML on software engineering It emphasizes the potential of cutting edge software development technologies such as Generative AI and ML applications This book incorporates data driven strategies across the entire software development life cycle from requirements elicitation and design to coding testing and deployment It illustrates the evolution from traditional frameworks to agile and DevOps methodologies The potential of Generative AI for automating repetitive tasks and enhancing code quality is highlighted along with ML applications in optimizing testing effort estimation design pattern recognition fault prediction debugging and security through anomaly detection These techniques have significantly improved software development efficiency predictability and project management effectiveness While remarkable progress has been made much remains to be done in this evolving area This edited book is a timely effort toward advancing the field and promoting interdisciplinary collaboration in addressing ethical security and technical challenges **Machine Learning for Software Quality and Reliability: Transforming Software Engineering** Hariprasad Sivaraman, 2020-11-13 As software systems grow in complexity ensuring quality reliability and efficiency has become more challenging than ever Machine Learning for Software Quality and Reliability explores how AI driven techniques are revolutionizing software engineering enhancing defect prediction automating testing and optimizing performance This book provides a deep dive into machine learning applications across the software development lifecycle Readers will discover how ML models improve defect detection automate test case generation and enhance predictive maintenance reducing downtime and increasing system stability Key topics include supervised and unsupervised learning for software quality anomaly detection for reliability engineering and ML powered root cause analysis By integrating real world case studies from leading technology companies the book demonstrates how AI driven quality assurance improves efficiency and scalability across industries Learn how Google Microsoft and Netflix leverage ML to enhance software reliability minimize bugs and optimize continuous integration continuous deployment CI CD pipelines With a focus on practical implementation Machine Learning for Software Quality and Reliability equips software engineers IT leaders and quality assurance professionals with actionable insights to integrate ML into their workflows Whether you re

seeking to automate testing enhance system resilience or improve software reliability this book provides the roadmap to harnessing AI for the next generation of high quality software development

**New Hybrid Machine Learning Models** Diana Lucia Miholca,2020

**Artificial Intelligence Methods For Software Engineering** Meir Kalech,Rui Abreu,Mark Last,2021-06-15 Software is an integral part of our lives today Modern software systems are highly complex and often pose new challenges in different aspects of Software Engineering SE Artificial Intelligence AI is a growing field in computer science that has been proven effective in applying and developing AI techniques to address various SE challenges This unique compendium covers applications of state of the art AI techniques to the key areas of SE design development debugging testing etc All the materials presented are up to date This reference text will benefit researchers academics professionals and postgraduate students in AI machine learning and software engineering Related Link s

[Computational Intelligence Applications for Software Engineering Problems](#) Parma Nand,Nitin Rakesh,Arun Prakash Agrawal,Vishal Jain,2023-02-10 This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks Software undergoes various stages before deployment such as requirements elicitation software designing software project planning software coding and software testing and maintenance Every stage is bundled with a number of tasks or activities to be performed Due to the large and complex nature of software these tasks can become costly and error prone This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning deep learning fuzzy logic based computation statistical modeling invasive weed meta heuristic algorithms artificial intelligence the DevOps model time series forecasting models and more

**Choice** ,2006

**AI-Powered Development: Building and Scaling Machine Learning Applications** Anand Vemula, AI Powered Development Building and Scaling Machine Learning Applications is a practical guide for building and deploying real world machine learning applications Author emphasizes a hands on approach demonstrating key concepts through code examples illustrations and interviews with industry experts The book covers the entire ML application lifecycle starting with defining the problem and collecting data then moving on to model training evaluation and deployment It delves into crucial aspects like data preprocessing feature engineering and model selection offering best practices for each stage Furthermore it addresses the challenges of scaling ML applications including infrastructure considerations and monitoring strategies Whether you re a data scientist software engineer or product manager this book provides valuable insights and practical guidance for building and scaling successful ML applications

**Artificial Intelligence and Software Engineering** Derek Partridge,2013-04-11 Managers business owners computer literate individuals software developers students and researchers all are looking for an understanding of artificial intelligence AI and what might be in the future In this literate yet easy to read discussion Derek Partridge explains

what artificial intelligence can and cannot do and what it holds for applications such as banking financial services and expert systems of all kinds Topics include the strengths and weaknesses of software development and engineering machine learning and its promises and problems expert systems and success stories and practical software through artificial intelligence

The Directory of Graduate Studies ,1999      *Computational Intelligence Techniques and Their Applications to Software Engineering Problems* Ankita Bansal,Abha Jain,Sarika Jain,Vishal Jain,Ankur Choudhary,2020-09-27 Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems      Applications of Artificial Intelligence in Engineering XI Robert A. Adey,George Rzevski,A. K. Sunol,1996 Abstracts of papers presented at the Eleventh International Conference on the Applications of Artificial Intelligence in Engineering held at the Sheraton Sand Key Resort Clearwater Florida in September 1996      The British National Bibliography Arthur James Wells,2007      Machine Learning and Knowledge Acquisition Gheorghe Tecuci,Yves Kodratoff,1995 Currently both fields are moving towards an integrated approach using machine learning techniques to automate knowledge acquisition from experts and knowledge acquisition techniques to guide and assist the learning process      Proceedings, International Symposium on Multimedia Software Engineering ,2000 Sixty four papers from the December 2000 symposium discuss the technical aspects of specifying designing implementing and evaluating multimedia software systems The papers cover such areas as multimedia architecture requirements and design specification user interface design Internet applications intelligent systems signal and image processing and databases Topics include distributed speech recognition services hierarchical case representation for software reuse using SDL for implementing a wireless medium access control protocol image coding using SMVQ with two level block classifier and a multimedia software for the analysis and design of circuits and electronics No subject index Annotation copyrighted by Book

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Andrew Kusiak, 1989 Fifteen papers represent recent advances by workers in America Europe and Japan They cover symbolic reasoning techniques knowledge representation schemes application of machine learning techniques off line configuration design and process planning and control scheduling storage and retrieval

## **Machine Learning Applications In Software Engineering** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Machine Learning Applications In Software Engineering**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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