AI Code Assistants Dos and Don'ts

AI code assistants are revolutionizing software development by automating repetitive tasks and providing intelligent suggestions. However, usi...

Do's

Don'ts

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Ensheng Dong

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Learn AI-assisted Python Programming Leo Porter,2024-01-09 Writing computer programs in Python just got a lot easier Use AI assisted coding tools like GitHub Copilot and ChatGPT to turn your ideas into applications faster than ever AI has changed the way we write computer programs With tools like Copilot and ChatGPT you can describe what you want in plain English and watch your AI assistant generate the code right before your eyes It s perfect for beginners or anyone who s struggled with the steep learning curve of traditional programming In Learn AI Assisted Python Programming With GitHub Copilot and ChatGPT you ll learn how to Write fun and useful Python applications no programming experience required Use the Copilot AI coding assistant to create Python programs Write prompts that tell Copilot exactly what to do Read Python code and understand what it does Test your programs to make sure they work the way you want them to Fix code with prompt engineering or human tweaks Apply Python creatively to help out on the job Learn AI Assisted Python Programming With GitHub Copilot and ChatGPT is a hands on beginner s guide that is written by two esteemed computer science university professors It teaches you everything you need to start programming Python in an AI first world You ll hit the ground running writing prompts that tell your AI assistant exactly what you want your programs to do Along the way you ll pick up the essentials of Python programming and practice the higher level thinking you ll need to create working apps for data analysis automating tedious tasks and even video games Foreword by Beth Simon Ph D About the technology The way people write computer programs has changed forever Using GitHub Copilot you describe in plain English what you want your program to do and the AI generates it instantly About the book This book shows you how to create and improve Python programs using AI even if you ve never written a line of computer code before Spend less time on the slow low level programming details and instead learn how an AI assistant can bring your ideas to life immediately As you go you ll even learn enough of the Python language to understand and improve what your AI assistant creates What s inside Prompts for working code Tweak code manually and with AI help AI test your programs Let AI handle tedious details About the reader If you can move files around on your computer and install new programs you can learn to write useful software About the author Dr Leo Porter is a Teaching Professor at UC San Diego Dr Daniel Zingaro is an Associate Teaching Professor at the University of Toronto The technical editor on this book was Peter Morgan Table of Contents 1 Introducing AI assisted programming with Copilot 2 Getting started with Copilot 3 Designing functions 4 Reading Python code Part 1 5 Reading Python Code Part 2 6 Testing and prompt engineering 7 Problem decomposition 8 Debugging and better understanding your code 9 Automating tedious tasks 10 Making some games 11 Future directions *Learn AI-Assisted Python Programming, Second Edition* Leo Porter,Daniel Zingaro,2024-10-29 See how an AI assistant can bring your ideas to life immediately **AI for Beginners: How to Use ChatGPT and Other Tools to Supercharge Your Work** Taylor Emerson, Unlock the power of artificial intelligence with AI for Beginners How to Use ChatGPT and Other Tools to Supercharge Your Work This practical

guide demystifies AI technology and shows you how to harness cutting edge tools like ChatGPT to boost productivity creativity and efficiency in your daily tasks Whether you re a student entrepreneur freelancer or professional this book walks you through everything you need to know to get started with AI Learn how to craft effective prompts automate repetitive work conduct smarter research and navigate ethical considerations all explained in clear beginner friendly language Packed with real world examples actionable tips and prompt templates this book empowers you to confidently integrate AI into your workflow and stay ahead in a rapidly evolving digital landscape Start your AI journey today and transform the way you work with AI for Beginners **A COMPREHENSIVE HANDBOOK TO LLMS AND GENERATIVE AI** Dr. Sitanath Biswas,Dr. S Rao Chintalapudi ,Dr. Sayanti Chatterjee ,Mr. Kancharagunta Kishan Babu,Mr. Bhupesh Deka, **Beyond Code** Daniel Plate,James Hutson,2025-09-02 AI powered coding tools are revolutionizing software development transforming programming from a specialized skill into an accessible educational practice across disciplines This book investigates how tools such as Cursor AI GitHub Copilot and Replit s Ghostwriter are dismantling traditional barriers to entry for learners particularly those from non STEM backgrounds by enabling natural language code generation intelligent debugging and interactive project based learning Bridging the gap between theoretical instruction and practical application the book serves as both a guide and a critical framework for integrating generative AI into curricula It highlights how these tools expand the boundaries of programming education by supporting interdisciplinary applications from literary analysis to creative writing thereby making coding relevant and actionable for students in the humanities and beyond The book equips educators with the tools and strategies necessary to incorporate AI assisted programming into diverse academic contexts by offering lesson plans and adaptable project models This resource is essential for instructors seeking to demystify coding promote inclusivity in technical learning and reimagine the role of software literacy in the twenty first century classroom **Psychology in Action, with EEPUB Access** Karen R. Huffman,Catherine A. Sanderson,Katherine Dowdell,2025-04-08 Provides a foundational understanding of the field of psychology helps students apply core concepts of psychology to their personal growth and success Easy to adapt to any course syllabus Psychology in Action Fundamentals of Psychological Science provides a college level survey of the field of psychology Students engage with real recent research while developing their scientific literacy with special features in each chapter Covering both the practical application and underlying science of psychology easily accessible chapters highlight the relevance of psychological science to understanding and having agency in everyday experiences and behaviors Now presented in a concise 14 chapter format this new edition of Psychology in Action retains its emphasis on active learning and fostering a growth mindset An expanded prologue focuses on critical thinking and student success and new to this edition Why Scientific Thinking Matters develops scientific thinking skills by examining a hot topic or common belief and new research supporting or disproving different perspectives Every module explores applications of psychology for personal growth and success and throughout this edition revised chapters ensure that multiple viewpoints

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neuromimetic system faking a decline in his data processing abilities to get reassigned as an investigator aide When several investors with ties to the Alliance abruptly succumb to a man made viral infection however Echika and Harold must team up once again to uncover the origins of the mysterious pathogen As their investigation gets underway the pair soon realize that they are being manipulated and that the Alliance s reach is far greater than they could have ever imagined **The Light** ,1924 *A new dictionary of the French and English languages compiled from the dictionaries of the French Academy, Bescherelle, Littré, Beaujean, Bourguignon, etc., etc., and from the most recent works on arts and sciences* Ebenezer Clifton,Adrien Grimaux,1889 AIC News ,1990 **Mademoiselle** ,1993-04 *Expert System Technology* Robert Keller,1987 **Referral from Independent Counsel Kenneth W. Starr in Conformity with the Requirements of Title 28, United States Code, Section 595(c)** Kenneth Starr,United States. Office of the Independent Counsel (1994-),1998 Report of Independent Counsel Kenneth Starr s investigation into the relationship between President Clinton and White House intern Monica Lewinsky and the possible impeachment of the President as a result of his conduct

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