Adversarial Design

Adversarial AI Attacks, Mitigations, and Defense StrategiesTricky DesignAdvances in Accounting EducationLLMs in EnterpriseRevealing Media Bias in News Articles John Sotiropoulos Tom Fisher Thomas G. Calderon Ahmed Menshawy Felix Hamborg

Adversarial AI Attacks, Mitigations, and Defense Strategies Tricky Design Advances in Accounting Education LLMs in Enterprise Revealing Media Bias in News Articles *John Sotiropoulos Tom Fisher Thomas G. Calderon Ahmed Menshawy Felix Hamborg*

the book not only explains how adversarial attacks work but also shows you how to build your own test environment and run attacks to see how they can corrupt ml models it s a comprehensive guide that walks you through the technical details and then flips to show you how to defend against these very same attacks elaine doyle vp and cybersecurity architect salesforce get with your book pdf copy ai assistant and next gen reader free key features understand the unique security challenges presented by predictive and generative ai explore common adversarial attack strategies as well as emerging threats such as prompt injection mitigate the risks of attack on your ai system with threat modeling and secure by design methods book descriptionadversarial attacks trick ai systems with malicious data creating new security risks by exploiting how ai learns this challenges cybersecurity as it forces us to defend against a whole new kind of threat this book demystifies adversarial attacks and equips you with the skills to secure ai technologies moving beyond research hype or business as usual activities learn how to defend ai and llm systems against manipulation and intrusion through adversarial attacks such as poisoning trojan horses and model extraction leveraging devsecops mlops and other methods to secure systems this strategy based book is a comprehensive guide to ai security combining structured frameworks with practical examples to help you identify and counter adversarial attacks part 1 introduces the foundations of ai and adversarial attacks parts 2 3 and 4 cover key attack types showing how each is performed and how to defend against them part 5 presents secure by design ai strategies including threat modeling mlsecops and guidance aligned with owasp and nist the book concludes with a blueprint for maturing enterprise ai security based on nist pillars addressing ethics and safety under trustworthy ai by the end of this book you ll be able to develop deploy and secure ai systems against the threat of adversarial attacks effectively what you will learn set up a playground to explore how adversarial attacks work discover how ai models can be poisoned and what you can do to prevent this learn about the use of trojan horses to tamper with and reprogram models understand supply chain risks examine how your models or data can be stolen in privacy attacks see how gans are weaponized for deepfake creation and cyberattacks explore emerging llm specific attacks such as prompt injection leverage devsecops mlops and mlsecops to secure your ai system who this book is for this book tackles ai security from both angles offense and defence ai developers and engineers will learn how to create secure systems while cybersecurity professionals such as security architects analysts engineers ethical hackers penetration testers and incident responders will discover methods to combat threats to ai and mitigate the risks posed by attackers the book also provides a secure by design approach for leaders to build ai with security in mind to get the most out of this book you ll need a basic understanding of security ml concepts and python

tricky design responds to the burgeoning of scholarly interest in the cultural meanings of objects by addressing the moral complexity of certain designed objects and systems the volume brings together leading international designers scholars and critics to explore some of the ways in which the practice of design and its outcomes can have a dark side even when the intention is to design for the public good considering a range of designed objects and relationships including guns eyewear assisted suicide kits anti rape devices passports and prisons the contributors offer a view of design as both progressive and problematic able to propose new material and human relationships yet also constrained by social norms and ideology this contradictory tricky quality of design is explored in the editors introduction which positions the objects systems services and things discussed in the book in relation to the idea of the trickster that occurs in anthropological literature as well as in classical thought discussing design interventions that have positive and negative ethical consequences these will include objects both material and immaterial systems with both local and global scope and also different processes of designing this important new volume brings a fresh perspective to the complex nature of things and makes a truly original contribution to debates in design ethics design philosophy and material culture

advances in accounting education teaching and curriculum innovations volume 27 features 11 peer reviewed papers surrounding the themes of applied professional research and skills building generative artificial intelligence and analytics in the accounting curriculum then innovative practices in cost accounting and other areas

integrate large language models into your enterprise applications with advanced strategies that drive transformation key features explore design patterns for applying llms to solve real world enterprise problems learn strategies for scaling and deploying llms in complex environments get more relevant results and improve performance by fine tuning and optimizing llms purchase of the print or kindle book includes a free pdf ebook book descriptionthe integration of large language models llms into enterprise applications is transforming how businesses use ai to drive smarter decisions and efficient operations llms in enterprise is your practical guide to bringing these capabilities into real world business contexts it demystifies the complexities of llm deployment and provides a structured approach for enhancing decision making and operational efficiency with ai starting with an introduction to the foundational concepts the book swiftly moves on to hands on applications focusing on real world challenges and solutions you ll master data strategies and explore design patterns that streamline the optimization and deployment of llms in enterprise environments from fine tuning techniques to advanced inferencing patterns the book equips you with a toolkit for solving complex challenges and driving ai led innovation in business processes by the end of this book you ll have a solid grasp of key llm design patterns and how to apply them to enhance the performance and scalability of your generative ai solutions what you will learn apply design patterns to integrate llms into enterprise applications for efficiency and scalability overcome common challenges in scaling and deploying llms use fine tuning techniques and rag approaches to enhance llm efficiency stay ahead of the curve with insights into emerging trends and advancements including multimodality optimize llm performance through customized contextual models advanced inferencing engines and evaluation patterns ensure fairness transparency and accountability in ai applications who this book is for this book is designed for a diverse group of professionals looking to understand and implement advanced design patterns for llms in their enterprise applications including ai and ml researchers exploring practical applications of llms data scientists and ml engineers designing and implementing large scale genai solutions enterprise architects and technical leaders who oversee the integration of ai technologies into business processes and software developers creating scalable genai powered applications

this open access book presents an interdisciplinary approach to reveal biases in english news articles reporting on a given political event the approach named person oriented framing analysis identifies the coverage s different perspectives on the event by assessing how articles portray the persons involved in the event in contrast to prior automated approaches the identified frames are more meaningful and substantially present in person oriented news coverage the book is structured in seven chapters chapter 1 presents a few of the severe problems caused by slanted news coverage and identifies the research gap that motivated the research described in this thesis chapter 2 discusses manual analysis concepts and exemplary studies from the social sciences and automated approaches mostly from computer science and computational linguistics to analyze and reveal media bias this way it identifies the strengths and weaknesses of current approaches for identifying and revealing media bias chapter 3 discusses the solution design space to address the identified research gap and introduces person oriented framing analysis pfa a new approach to identify substantial frames and to reveal slanted news coverage chapters 4 and 5 detail target concept analysis and frame identification the first and second component of pfa chapter 5 also introduces the first large scale dataset and a novel model for target dependent sentiment classification tsc in the news domain eventually chapter 6 introduces newsalyze a prototype system to reveal biases to non expert news consumers by using the pfa approach in the end chapter 7 summarizes the thesis and discusses the strengths and weaknesses of the thesis to derive ideas for future research on media bias this book mainly targets researchers and graduate students from computer science computational linguistics political science and further social sciences who want to get an overview of the relevant state of the art in the other related disciplines and understand and tackle the issue of bias from a more effective interdisciplinary viewpoint

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