

WHOSE OPINIONS DO LANGUAGE MODELS REFLECT

WHOSE OPINIONS DO LANGUAGE MODELS REFLECT IS A CRITICAL QUESTION IN UNDERSTANDING THE NATURE AND IMPLICATIONS OF ARTIFICIAL INTELLIGENCE IN NATURAL LANGUAGE PROCESSING. LANGUAGE MODELS, SUCH AS GPT AND OTHERS, ARE TRAINED ON VAST DATASETS COMPOSED OF TEXT FROM THE INTERNET, BOOKS, ARTICLES, AND OTHER WRITTEN MATERIALS. THE OPINIONS AND PERSPECTIVES EMBEDDED WITHIN THESE MODELS ARE INEVITABLY INFLUENCED BY THE DATA SOURCES, THE DEVELOPERS' DESIGN CHOICES, AND THE UNDERLYING ALGORITHMS. THIS ARTICLE EXPLORES WHOSE OPINIONS LANGUAGE MODELS TRULY MIRROR, INCLUDING THE ROLES OF DATA CURATION, SOCIETAL BIASES, AND THE ETHICAL CONSIDERATIONS INVOLVED. ANALYZING THESE FACTORS PROVIDES INSIGHT INTO THE TRANSPARENCY, FAIRNESS, AND RELIABILITY OF AI-GENERATED CONTENT. THE DISCUSSION ALSO COVERS HOW LANGUAGE MODELS REFLECT DOMINANT CULTURAL NARRATIVES AND THE IMPACT OF TRAINING DATA DIVERSITY. FINALLY, THE ARTICLE ADDRESSES THE CHALLENGES IN MITIGATING BIAS AND THE ONGOING EFFORTS TO MAKE LANGUAGE MODELS MORE BALANCED AND REPRESENTATIVE.

- SOURCES OF OPINIONS REFLECTED IN LANGUAGE MODELS
- INFLUENCE OF DATA SELECTION AND CURATION
- ROLE OF DEVELOPERS AND DESIGN DECISIONS
- IMPACT OF SOCIETAL AND CULTURAL BIASES
- EFFORTS TO MITIGATE BIAS AND ENSURE FAIRNESS

SOURCES OF OPINIONS REFLECTED IN LANGUAGE MODELS

LANGUAGE MODELS DERIVE THEIR OUTPUTS FROM PATTERNS LEARNED DURING TRAINING ON EXTENSIVE TEXT CORPORA. THESE CORPORA CONSIST OF DIVERSE SOURCES SUCH AS BOOKS, WEBSITES, NEWS ARTICLES, SOCIAL MEDIA POSTS, AND OTHER DIGITAL TEXTS. THE OPINIONS REFLECTED BY LANGUAGE MODELS CORRESPOND LARGELY TO THE AGGREGATE VIEWPOINTS PRESENT IN THESE SOURCES. SINCE THE TRAINING DATA ENCOMPASSES A BROAD SPECTRUM OF HUMAN EXPRESSION, THE MODELS INHERENTLY CAPTURE A MIXTURE OF PERSPECTIVES, INCLUDING POPULAR, NICHE, MAINSTREAM, AND MARGINALIZED OPINIONS. HOWEVER, THE PREVALENCE OF CERTAIN VIEWPOINTS IN THE TRAINING DATA INFLUENCES THE LIKELIHOOD THAT THOSE OPINIONS WILL BE ECHOED IN THE MODEL'S RESPONSES.

VARIETY OF DATA SOURCES

THE DIVERSITY OF DATA SOURCES AFFECTS THE RANGE OF OPINIONS REPRESENTED WITHIN LANGUAGE MODELS. COMMONLY USED DATASETS INCLUDE:

- OPEN WEB CRAWLS CAPTURING BLOGS, FORUMS, AND NEWS OUTLETS
- DIGITIZED BOOKS COVERING MULTIPLE GENRES AND ACADEMIC DISCIPLINES
- SOCIAL MEDIA CONTENT REFLECTING INFORMAL LANGUAGE AND CURRENT TRENDS
- ENCYCLOPEDIC AND REFERENCE MATERIALS PROVIDING FACTUAL INFORMATION

THE MIXTURE OF THESE SOURCES CONTRIBUTES TO THE MULTIFACETED NATURE OF OPINIONS LANGUAGE MODELS CAN EXPRESS.

PREVALENCE OF DOMINANT NARRATIVES

DESPITE THE VARIETY, DOMINANT CULTURAL AND SOCIETAL NARRATIVES TEND TO BE OVERREPRESENTED. THIS IS PARTLY BECAUSE WIDELY AVAILABLE DIGITAL CONTENT OFTEN ORIGINATES FROM SPECIFIC REGIONS, LANGUAGES, OR IDEOLOGICAL GROUPS. CONSEQUENTLY, THE OPINIONS REFLECTED IN LANGUAGE MODELS MAY DISPROPORTIONATELY MIRROR THOSE DOMINANT PERSPECTIVES.

INFLUENCE OF DATA SELECTION AND CURATION

THE PROCESS OF SELECTING AND CURATING TRAINING DATA SIGNIFICANTLY SHAPES WHICH OPINIONS LANGUAGE MODELS REFLECT. DATA CURATION INVOLVES FILTERING CONTENT TO REMOVE HARMFUL OR LOW-QUALITY MATERIAL WHILE ATTEMPTING TO PRESERVE A BALANCED REPRESENTATION OF VIEWPOINTS. HOWEVER, THE CRITERIA USED FOR INCLUSION OR EXCLUSION INEVITABLY INFLUENCE THE MODEL'S OUTPUTS.

FILTERING AND PREPROCESSING

TRAINING DATA UNDERGOES PREPROCESSING STEPS SUCH AS DEDUPLICATION, CLEANING, AND MODERATION TO ELIMINATE SPAM, MISINFORMATION, OR OFFENSIVE LANGUAGE. WHILE NECESSARY FOR QUALITY, THESE STEPS CAN UNINTENTIONALLY BIAS THE DATASET BY EXCLUDING CERTAIN OPINIONS OR VOICES, PARTICULARLY THOSE EXPRESSED IN UNCONVENTIONAL OR LESS WIDELY ACCEPTED FORMS.

REPRESENTATION AND DIVERSITY IN DATA

ENSURING DIVERSITY IN TRAINING DATA IS A KEY FACTOR IN REFLECTING A BROAD RANGE OF OPINIONS. DIVERSE DATA SOURCES HELP CAPTURE MULTIPLE CULTURAL, IDEOLOGICAL, AND DEMOGRAPHIC PERSPECTIVES. NONETHELESS, ACHIEVING TRUE DIVERSITY IS CHALLENGING DUE TO THE UNEVEN AVAILABILITY OF DIGITAL TEXTS AND THE DOMINANCE OF CONTENT IN SPECIFIC LANGUAGES OR FROM CERTAIN REGIONS.

ROLE OF DEVELOPERS AND DESIGN DECISIONS

BEYOND DATA, THE INDIVIDUALS AND ORGANIZATIONS DEVELOPING LANGUAGE MODELS INFLUENCE WHOSE OPINIONS ARE REFLECTED THROUGH THEIR DESIGN CHOICES, MODEL ARCHITECTURE, AND ETHICAL FRAMEWORKS.

ALGORITHMIC BIASES AND PARAMETER SETTINGS

DEVELOPERS DETERMINE VARIOUS HYPERPARAMETERS AND MODELING STRATEGIES THAT AFFECT HOW THE MODEL LEARNS PATTERNS IN DATA. THESE TECHNICAL DECISIONS CAN AMPLIFY OR DAMPEN CERTAIN TYPES OF CONTENT, INDIRECTLY SHAPING THE OPINIONS THAT EMERGE IN MODEL RESPONSES.

ETHICAL GUIDELINES AND CONTENT POLICIES

MANY ORGANIZATIONS ESTABLISH ETHICAL GUIDELINES TO PREVENT THE PROPAGATION OF HARMFUL OR MISLEADING OPINIONS. THESE POLICIES MAY RESTRICT CERTAIN TOPICS OR LANGUAGE, THEREBY FILTERING OUT PARTICULAR VIEWPOINTS. WHILE AIMING TO PROMOTE SAFETY AND ACCURACY, THESE RESTRICTIONS ALSO INFLUENCE THE SPECTRUM OF REFLECTED OPINIONS.

HUMAN-IN-THE-LOOP AND FINE-TUNING

HUMAN REVIEWERS AND ANNOTATORS OFTEN PARTICIPATE IN REFINING MODELS THROUGH SUPERVISED FINE-TUNING AND REINFORCEMENT LEARNING FROM HUMAN FEEDBACK (RLHF). THEIR JUDGMENTS ABOUT APPROPRIATE OR INAPPROPRIATE CONTENT FURTHER AFFECT WHICH OPINIONS THE MODEL PRESENTS, EMBEDDING HUMAN VALUES INTO THE MODEL'S BEHAVIOR.

IMPACT OF SOCIETAL AND CULTURAL BIASES

LANGUAGE MODELS INHERENTLY ABSORB SOCIETAL AND CULTURAL BIASES PRESENT IN THEIR TRAINING DATA. THESE BIASES PERTAIN TO RACE, GENDER, ETHNICITY, POLITICAL IDEOLOGY, AND OTHER FACETS THAT INFLUENCE LANGUAGE USE AND OPINION EXPRESSION.

MANIFESTATION OF BIASES IN MODEL OUTPUTS

BIASES CAN MANIFEST IN VARIOUS WAYS, SUCH AS STEREOTYPING, UNEQUAL REPRESENTATION, OR SKEWED SENTIMENT TOWARD CERTAIN GROUPS OR IDEAS. BECAUSE LANGUAGE MODELS REFLECT PATTERNS IN THEIR DATA, THEY CAN INADVERTENTLY REPRODUCE OR EVEN AMPLIFY THESE BIASES.

EXAMPLES OF BIASED OPINION REFLECTION

INSTANCES INCLUDE:

- PREFERENTIAL TREATMENT OF DOMINANT CULTURAL NORMS OVER MINORITY VIEWPOINTS
- REINFORCEMENT OF GENDER STEREOTYPES IN LANGUAGE USE
- POLITICAL POLARIZATION REFLECTED IN TOPIC FRAMING OR SENTIMENT
- UNDERREPRESENTATION OF NON-WESTERN PERSPECTIVES

THESE EXAMPLES HIGHLIGHT THE CHALLENGES OF ACHIEVING NEUTRALITY AND FAIRNESS IN AI-GENERATED LANGUAGE.

EFFORTS TO MITIGATE BIAS AND ENSURE FAIRNESS

ADDRESSING THE QUESTION OF WHOSE OPINIONS LANGUAGE MODELS REFLECT INVOLVES ACTIVE EFFORTS TO REDUCE BIAS AND PROMOTE FAIRNESS IN AI SYSTEMS.

TECHNIQUES FOR BIAS MITIGATION

SEVERAL STRATEGIES ARE EMPLOYED TO COUNTERACT BIAS, INCLUDING:

- DATA AUGMENTATION TO INCREASE UNDERREPRESENTED PERSPECTIVES
- BIAS DETECTION ALGORITHMS TO IDENTIFY PROBLEMATIC CONTENT
- REGULAR MODEL AUDITS AND IMPACT ASSESSMENTS
- INCORPORATION OF FAIRNESS CONSTRAINTS DURING TRAINING

TRANSPARENCY AND EXPLAINABILITY

IMPROVING TRANSPARENCY ABOUT TRAINING DATA SOURCES AND MODEL LIMITATIONS HELPS USERS UNDERSTAND THE ORIGINS OF REFLECTED OPINIONS. EXPLAINABILITY TOOLS AIM TO CLARIFY HOW MODELS GENERATE RESPONSES, MAKING IT EASIER TO DETECT BIAS OR MISREPRESENTATION.

COMMUNITY INVOLVEMENT AND ETHICAL GOVERNANCE

INVOLVING DIVERSE STAKEHOLDERS, INCLUDING ETHICISTS, DOMAIN EXPERTS, AND MARGINALIZED COMMUNITIES, IS CRUCIAL FOR DEVELOPING GUIDELINES THAT ENSURE LANGUAGE MODELS REFLECT A BALANCED RANGE OF OPINIONS. ETHICAL GOVERNANCE FRAMEWORKS GUIDE RESPONSIBLE AI DEVELOPMENT AND DEPLOYMENT.

FREQUENTLY ASKED QUESTIONS

WHOSE OPINIONS DO LANGUAGE MODELS PRIMARILY REFLECT?

LANGUAGE MODELS PRIMARILY REFLECT THE OPINIONS, BIASES, AND INFORMATION PRESENT IN THE DATA THEY WERE TRAINED ON, WHICH TYPICALLY INCLUDES A VAST RANGE OF INTERNET TEXT, BOOKS, AND OTHER WRITTEN CONTENT CREATED BY HUMANS.

DO LANGUAGE MODELS HAVE THEIR OWN OPINIONS?

NO, LANGUAGE MODELS DO NOT HAVE THEIR OWN OPINIONS OR CONSCIOUSNESS; THEY GENERATE RESPONSES BASED ON PATTERNS LEARNED FROM THEIR TRAINING DATA AND DO NOT POSSESS PERSONAL BELIEFS OR FEELINGS.

HOW DO THE CREATORS OF LANGUAGE MODELS INFLUENCE THE OPINIONS REFLECTED BY THESE MODELS?

CREATORS INFLUENCE LANGUAGE MODELS THROUGH CHOICES IN TRAINING DATA, MODEL ARCHITECTURE, AND FINE-TUNING PROCESSES, WHICH CAN AFFECT HOW THE MODEL REPRESENTS CERTAIN VIEWPOINTS AND WHICH BIASES ARE AMPLIFIED OR MITIGATED.

CAN LANGUAGE MODELS REFLECT BIASED OR CONTROVERSIAL OPINIONS?

YES, SINCE LANGUAGE MODELS LEARN FROM HUMAN-GENERATED DATA THAT MAY CONTAIN BIASES OR CONTROVERSIAL OPINIONS, THEY CAN INADVERTENTLY REFLECT AND REPRODUCE THESE BIASES UNLESS SPECIFICALLY DESIGNED OR FINE-TUNED TO REDUCE SUCH EFFECTS.

HOW CAN USERS CRITICALLY EVALUATE THE OPINIONS EXPRESSED BY LANGUAGE MODELS?

USERS SHOULD RECOGNIZE THAT LANGUAGE MODEL OUTPUTS ARE SHAPED BY THEIR TRAINING DATA AND LACK INDEPENDENT JUDGMENT, SO THEY SHOULD VERIFY INFORMATION FROM RELIABLE SOURCES AND BE CAUTIOUS ABOUT ACCEPTING GENERATED OPINIONS AT FACE VALUE.

ADDITIONAL RESOURCES

1. *THE ALIGNMENT PROBLEM: MACHINE LEARNING AND HUMAN VALUES*

THIS BOOK EXPLORES THE CHALLENGES OF ENSURING THAT ARTIFICIAL INTELLIGENCE SYSTEMS, INCLUDING LANGUAGE MODELS, REFLECT HUMAN VALUES AND ETHICS. IT DELVES INTO THE COMPLEXITIES OF ALIGNING MACHINE BEHAVIOR WITH DIVERSE AND SOMETIMES CONFLICTING HUMAN OPINIONS. THE AUTHOR DISCUSSES THE TECHNICAL AND PHILOSOPHICAL DIMENSIONS OF AI

ALIGNMENT, HIGHLIGHTING WHY LANGUAGE MODELS MIGHT REPLICATE BIASES PRESENT IN THEIR TRAINING DATA.

2. *ARTIFICIAL UNINTELLIGENCE: HOW COMPUTERS MISUNDERSTAND THE WORLD*

WRITTEN BY MEREDITH BROUSSARD, THIS BOOK EXAMINES THE LIMITATIONS OF AI SYSTEMS, PARTICULARLY HOW LANGUAGE MODELS CAN INADVERTENTLY PERPETUATE SOCIETAL BIASES. IT PROVIDES A CRITICAL LOOK AT THE ASSUMPTIONS BEHIND AI'S CAPACITY TO UNDERSTAND HUMAN LANGUAGE AND OPINIONS. THE BOOK ARGUES FOR A MORE NUANCED APPROACH TO AI DEVELOPMENT THAT RECOGNIZES THE INFLUENCE OF HUMAN INPUT AND DATA SELECTION.

3. *WEAPONS OF MATH DESTRUCTION: HOW BIG DATA INCREASES INEQUALITY AND THREATENS DEMOCRACY*

CATHY O'NEIL'S BOOK DISCUSSES HOW ALGORITHMS, INCLUDING THOSE USED IN LANGUAGE MODELS, CAN REINFORCE HARMFUL STEREOTYPES AND BIASES FOUND IN THEIR TRAINING DATA. IT HIGHLIGHTS THE SOCIAL IMPACT OF AUTOMATED DECISION-MAKING TOOLS AND QUESTIONS WHOSE INTERESTS THESE MODELS ULTIMATELY SERVE. THE BOOK IS A CALL TO SCRUTINIZE THE SOURCES OF DATA AND THE OPINIONS EMBEDDED WITHIN AI SYSTEMS.

4. *RACE AFTER TECHNOLOGY: ABOLITIONIST TOOLS FOR THE NEW JIM CODE*

RUHA BENJAMIN INVESTIGATES HOW TECHNOLOGY, INCLUDING AI LANGUAGE MODELS, CAN REFLECT AND AMPLIFY RACIAL BIASES AND SYSTEMIC INEQUALITIES. THE BOOK INTRODUCES THE CONCEPT OF THE "NEW JIM CODE," WHERE CODED BIASES PERPETUATE DISCRIMINATION UNDER THE GUISE OF NEUTRALITY. IT ENCOURAGES READERS TO QUESTION THE ORIGINS OF THE OPINIONS ENCODED IN AI AND TO PURSUE MORE EQUITABLE DESIGN PRACTICES.

5. *ALGORITHMS OF OPPRESSION: HOW SEARCH ENGINES REINFORCE RACISM*

SAFIYA UMOJA NOBLE'S WORK HIGHLIGHTS HOW SEARCH ALGORITHMS AND LANGUAGE MODELS REFLECT DOMINANT CULTURAL PERSPECTIVES AND MARGINALIZE MINORITY VOICES. THE BOOK PROVIDES CASE STUDIES SHOWING HOW BIASED DATA PRODUCES SKEWED OUTPUTS, INFLUENCING PUBLIC OPINION AND ACCESS TO INFORMATION. IT RAISES IMPORTANT QUESTIONS ABOUT WHOSE OPINIONS ARE PRIORITIZED IN AI SYSTEMS.

6. *REPROGRAMMING THE AMERICAN DREAM: FROM RURAL AMERICA TO SILICON VALLEY—MAKING AI SERVE US ALL*

KEVIN SCOTT DISCUSSES HOW AI, INCLUDING LANGUAGE MODELS, CAN BE HARNESSSED TO SERVE A BROAD RANGE OF COMMUNITIES RATHER THAN JUST A SELECT FEW. THE BOOK EXPLORES THE IMPORTANCE OF DIVERSE DATA SOURCES AND INCLUSIVE DESIGN TO ENSURE THAT AI REFLECTS A WIDER ARRAY OF HUMAN OPINIONS. IT ADVOCATES FOR DEMOCRATIZING AI DEVELOPMENT TO BETTER REPRESENT SOCIETAL VALUES.

7. *DATA AND GOLIATH: THE HIDDEN BATTLES TO COLLECT YOUR DATA AND CONTROL YOUR WORLD*

BRUCE SCHNEIER'S BOOK SHEDS LIGHT ON HOW DATA COLLECTION PRACTICES INFLUENCE THE INFORMATION THAT LANGUAGE MODELS LEARN FROM. IT EXPLAINS HOW SURVEILLANCE AND DATA BIASES SHAPE THE OPINIONS EMBEDDED IN AI SYSTEMS. THE BOOK URGES GREATER TRANSPARENCY AND ACCOUNTABILITY IN DATA USAGE TO PREVENT THE REINFORCEMENT OF HARMFUL BIASES.

8. *HUMAN COMPATIBLE: ARTIFICIAL INTELLIGENCE AND THE PROBLEM OF CONTROL*

STUART RUSSELL EXPLORES THE FUNDAMENTAL PROBLEM OF ENSURING THAT AI SYSTEMS, INCLUDING LANGUAGE MODELS, ACT IN WAYS ALIGNED WITH HUMAN INTENTIONS AND VALUES. THE BOOK DISCUSSES THE DIFFICULTY OF DEFINING WHOSE OPINIONS SHOULD GUIDE AI BEHAVIOR, GIVEN THE DIVERSITY OF HUMAN PERSPECTIVES. IT OFFERS INSIGHTS INTO DESIGNING AI THAT IS BOTH POWERFUL AND BENEFICIAL FOR ALL.

9. *BIAS IN ARTIFICIAL INTELLIGENCE: SOURCES, IMPLICATIONS, AND MITIGATION STRATEGIES*

THIS ACADEMIC COLLECTION ADDRESSES THE ORIGINS OF BIAS IN AI SYSTEMS, FOCUSING ON LANGUAGE MODELS AND THEIR TRAINING DATA. IT EXAMINES HOW SOCIETAL OPINIONS AND PREJUDICES BECOME EMBEDDED IN AI OUTPUTS AND EXPLORES METHODS TO IDENTIFY AND REDUCE THESE BIASES. THE BOOK IS A COMPREHENSIVE RESOURCE FOR UNDERSTANDING WHOSE OPINIONS LANGUAGE MODELS REFLECT AND HOW TO MOVE TOWARD FAIRNESS.

Whose Opinions Do Language Models Reflect

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whose opinions do language models reflect: Artificial Intelligence and Universal Values

Jay Friedenber, 2024-07-14 The field of value alignment, or more broadly machine ethics, is becoming increasingly important as artificial intelligence developments accelerate. By 'alignment' we mean giving a generally intelligent software system the capability to act in ways that are beneficial, or at least minimally harmful, to humans. There are a large number of techniques that are being experimented with, but this work often fails to specify what values exactly we should be aligning. When making a decision, an agent is supposed to maximize the expected utility of its value function. Classically, this has been referred to as happiness, but this is just one of many things that people value. In order to resolve this issue, we need to determine a set of human values that represent humanity's interests. Although this problem might seem intractable, research shows that people of various cultures and religions actually share more in common than they realize. In this book we review world religions, moral philosophy and evolutionary psychology to elucidate a common set of shared values. We then show how these values can be used to address the alignment problem and conclude with problems and goals for future research. The key audience for this book will be researchers in the field of ethics and artificial intelligence who are interested in, or working on this problem. These people will come from various professions and include philosophers, computer programmers and psychologists, as the problem itself is multi-disciplinary.

whose opinions do language models reflect: *Proceedings of 17th International Conference*

on Machine Learning and Computing Lin Huang, David Greenhalgh, 2025-08-17 This book comprises original and peer reviewed research papers presented at 2025 17th International Conference on Machine Learning and Computing that was held in Guangzhou, China, from February 14 to 17, 2025. The focus of the conference is to establish an effective platform for institutions and industries to share ideas and to present the works of scientists, engineers, educators and students from all over the world. Topics discussed in this volume include Machine Learning Theory and Algorithms, High-performance Computing Models and Data Processing, Large-scale Language Models and Natural Language Processing, Data-oriented Information System Optimization and Intelligent Computing, AI-based Intelligent Control Systems and System Security, etc. The book will become a valuable resource for academics, industry professionals, and engineers working in the related fields of machine learning and computing.

whose opinions do language models reflect: *These Strange New Minds* Christopher

Summerfield, 2025-03-11 An insider look at the Large Language Models (LLMs) that are revolutionizing our relationship to technology, exploring their surprising history, what they can and should do for us today, and where they will go in the future—from an AI pioneer and neuroscientist In this accessible, up-to-date, and authoritative examination of the world's most radical technology, neuroscientist and AI researcher Christopher Summerfield explores what it really takes to build a brain from scratch. We have entered a world in which disarmingly human-like chatbots, such as ChatGPT, Claude and Bard, appear to be able to talk and reason like us - and are beginning to transform everything we do. But can AI 'think', 'know' and 'understand'? What are its values? Whose biases is it perpetuating? Can it lie and if so, could we tell? Does their arrival threaten our very existence? *These Strange New Minds* charts the evolution of intelligent talking machines and provides us with the tools to understand how they work and how we can use them. Ultimately, armed with an understanding of AI's mysterious inner workings, we can begin to grapple with the existential question of our age: have we written ourselves out of history or is a technological utopia ahead?

whose opinions do language models reflect: *Current and Future Trends on Intelligent*

Technology Adoption Mohammed A. Al-Sharafi, Mostafa Al-Emran, Garry Wei-Han Tan, Keng-Boon Ooi, 2024-06-12 This book explores current and future trends in adopting intelligent technologies among individuals and organizations. The edited book includes empirical and review studies primarily focusing on these issues. This focus aids scholars in conducting future research in the domain and identifying possible future developments of emerging technologies. The empirical

studies in the book utilize recent and advanced analytical techniques for data analysis.

whose opinions do language models reflect: *Advances in Information Retrieval* Claudia Hauff, Craig Macdonald, Dietmar Jannach, Gabriella Kazai, Franco Maria Nardini, Fabio Pinelli, Fabrizio Silvestri, Nicola Tonellotto, 2025-04-02 The five-volume set LNCS 15572, 15573, 15574, 15575 and 15576 constitutes the refereed conference proceedings of the 47th European Conference on Information Retrieval, ECIR 2025, held in Lucca, Italy, during April 6-10, 2025. The 52 full papers, 11 findings, 42 short papers and 76 papers of other types presented in these proceedings were carefully reviewed and selected from 530 submissions. The accepted papers cover the state-of-the-art in information retrieval and recommender systems: user aspects, system and foundational aspects, artificial intelligence and machine learning, applications, evaluation, new social and technical challenges, and other topics of direct or indirect relevance to search and recommendation.

whose opinions do language models reflect: *Multi-disciplinary Trends in Artificial Intelligence* Chattrakul Sombattheera, Paul Weng, Jun Pang, 2025-02-19 The two-volume set LNAI 15431 and 15432 constitutes the refereed proceedings of the 17th International Conference on Multi-disciplinary Trends in Artificial Intelligence, MIWAI 2024, held in Pattaya, Thailand, during November 11-15, 2024. The 68 full papers presented in these proceedings were carefully reviewed and selected from 147 submissions. The papers focus on various topics in AI and its applications, such as deep learning, machine learning, computer vision, pattern recognition, and natural language processing.

whose opinions do language models reflect: *Advances in Intelligent Systems and Digital Applications* Noreddine Gherabi, Janusz Kacprzyk, Sara Arezki, 2025-08-12 This book serves as a comprehensive reference, providing cutting-edge knowledge on intelligent systems and digital applications. It covers theoretical foundations and significant issues in machine learning, deep learning, and data analytics. Each chapter concludes with a detailed bibliography for further in-depth reading. Divided into two sections—Foundations and Applications—the book offers a complete source of information on its theme. The chapters include concepts, algorithms, figures, graphs, and tables to enhance readability. The target audience includes researchers, practitioners, and postgraduate and graduate students developing or utilizing artificial intelligence algorithms in various applications.

whose opinions do language models reflect: *New Horizons in Leadership: Inclusive Explorations in Health, Technology, and Education* Burrell, Darrell, Nguyen, Colton, 2025-02-25 The impact of leadership can create better outcomes for communities through inclusive methodology. Understanding the impact of leadership can enhance understanding of how to better serve under-advocated communities. Innovative leadership can be applied to numerous fields, including business, health, technology, and education. Thus, an intersectional approach to cross-industry studies can be applied to a broad audience with a desire to progress society for the better. *New Horizons in Leadership: Inclusive Explorations in Health, Technology, and Education* contributes to the research body of knowledge and provides new context on how under-advocated for populations can be understood in the workplace by leadership interventions. Covering topics such as global cooperation, employee cynicism, and organizational integrity, this book is an excellent resource for community organizers, leaders, professionals, researchers, scholars, academicians, and more.

whose opinions do language models reflect: *Wissenschaftliches Schreiben mit KI* Isabella Buck, 2025

whose opinions do language models reflect: *Beyond Quantity* Andreas Sudmann, Anna Echtermöller, Markus Ramsauer, Fabian Retkowski, Jens Schröter, Alexander Waibel, 2023-11-24 How do artificial neural networks and other forms of artificial intelligence interfere with methods and practices in the sciences? Which interdisciplinary epistemological challenges arise when we think about the use of AI beyond its dependency on big data? Not only the natural sciences, but also the social sciences and the humanities seem to be increasingly affected by current approaches of subsymbolic AI, which master problems of quality (fuzziness, uncertainty) in a hitherto unknown

way. But what are the conditions, implications, and effects of these (potential) epistemic transformations and how must research on AI be configured to address them adequately?

whose opinions do language models reflect: *How Courts Impact Federal Administrative Behavior* Robert J. Hume, 2009-05-07 What impact do federal courts have on the administrative agencies of the federal government? How do agencies react to the decisions of federal courts? This book answers these questions by examining the responses of federal agencies to the U.S. Courts of Appeals, revealing what happens inside agencies after courts rule against them. Robert J. Hume draws upon dozens of interviews with current and former administrators, taking readers behind the scenes of these organizations to reveal their internal procedures, their attitudes about courts, and their surprising capacity to be influenced by a judge's choice of words. This fascinating study will be of interest to students and scholars of politics as well as those seeking great understanding of the intricacies of the US political system.

whose opinions do language models reflect: *Memoir of De Witt Clinton* David Hosack, 1829

whose opinions do language models reflect: *Adapting Human Thinking and Moral Reasoning in Contemporary Society* Yama, Hiroshi, Salvano-Pardieu, Veronique, 2019-11-22 Studies on human thinking have focused on how humans solve a problem and have discussed how human thinking can be rational. A juxtaposition between psychology and sociology allows for a unique perspective of the influence on human thought and morality on society. *Adapting Human Thinking and Moral Reasoning in Contemporary Society* is an in-depth critical resource that provides comprehensive research on thinking and morality and its influence on societal norms as well as how people adapt themselves to the novel circumstances and phenomena that characterize the contemporary world, including low birthrate, the reduction of violence, and globalization. Furthermore, cultural differences are considered with research targeted towards problems specific to a culture. Featuring a wide range of topics such as logic education, cognition, and knowledge management systems, this book is ideal for academicians, sociologists, researchers, social scientists, psychologists, and students.

whose opinions do language models reflect: *Sustainability, Technology, and Finance*

Herman Bril, Georg Kell, Andreas Rasche, 2022-12-12 This book explores the swiftly emerging nexus between sustainability, finance, and technology. Leading practitioners and academic thought leaders reflect on the ways in which technology and digitalization shape how sustainable finance professionals address environmental, social, and governance (ESG) issues. Together, the contributors identify three spheres in which technology shapes how investors make sense of such issues: ESG and technology: finance professionals need to know about how technological innovations, such as chemical recycling for plastics, in the real economy shape firms' ESG performance; ESG through technology: technological developments, such as AI and blockchain, can enable finance professionals to offer more fine-grained ESG analyses; and ESG as technology: the ESG agenda itself is influenced by technological developments that are not well understood by practitioners (e.g., data mining for Bitcoin creating significant emissions). Using practically relevant examples and recent insights from people working in the field, the book explores the linkages between sustainability, technology, and finance in different contexts and shows how practitioners can accelerate needed change processes. This book primarily addresses practitioners in companies and investment firms as well as students enrolled in executive education and MBA programs.

whose opinions do language models reflect: *Research Methods in Politics and International Relations* Christopher Lamont, Mieczyslaw P. Boduszynski, 2024-12-04 The most practical guide to conducting research in Politics and International Relations. This textbook sets out how to approach every stage of your research project, from formulating a research question and research design, to detailed guidance on using specific methods and writing up your paper. Packed with practical tips throughout, this second edition: •Offers a troubleshooting feature to help you with the most common blockages and questions at each stage of the process •Has unrivalled coverage, with brand-new chapters on all the key methods used in Politics and IR, from discourse analysis and interviews to descriptive and inferential statistics. •Engages with some of the most cutting-edge research with

examples spanning current issues from climate change to great power competition. •Helps you engage with theory in your research project, with a standalone chapter mapping theoretical perspectives and how to engage with theory successfully in your research. •Is immersed in practical application with two Research in Practice features running throughout the book to show methods in practice. Lamont and Boduszynski's new book is eminently readable and designed for all students of Politics and IR, whether on an introductory methods course or undertaking a research project. Christopher Lamont is Dean of E-Track's International Relations program and Vice Dean of the Graduate School of International Relations at Tokyo International University in Japan. Mieczyslaw P. Boduszynski is Associate Professor of Politics and International Relations at Pomona College in California, USA.

whose opinions do language models reflect: Why do We Write as We Write? Paradigms, Power, Poetics, Praxis Sergio Tavares Filho, 2019-01-04 This volume was first published by Inter-Disciplinary Press in 2013. Why? What is motivating us? What are the outcomes of our writing experiences? How to improve them? How to enable and empower young writers, students or independent artists to write more and better? What are the challenges? The activity of writing has been observed in this eBook from, mainly, two different perspectives: writing, self and discovery, on a predominantly institutional level, and writing as craft, with focus on text and writing practice. The division seems simple, but the variety of articles cover a wide range of subjects within the topic, creating interesting overviews - writing starts with writing instruction, progresses to discovery of the text, and this stage progresses frequently, as shown in the articles, as journeys of discovery and self-discovery.

whose opinions do language models reflect: Reintroduction of the Mexican Wolf Within Its Historic Range in the Southwestern United States U.S. Fish and Wildlife Service, 1996

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