

# WHY DO CHATBOTS FAIL?

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# Why Chatbots Fail

**Joyce Weiner**



## **Why Chatbots Fail:**

**Why AI/Data Science Projects Fail** Joyce Weiner, 2022-06-01 Recent data shows that 87% of Artificial Intelligence Big Data projects don't make it into production VB Staff 2019 meaning that most projects are never deployed This book addresses five common pitfalls that prevent projects from reaching deployment and provides tools and methods to avoid those pitfalls Along the way stories from actual experience in building and deploying data science projects are shared to illustrate the methods and tools While the book is primarily for data science practitioners information for managers of data science practitioners is included in the Tips for Managers sections **Why Programs Fail** Andreas Zeller, 2006 Why Programs Fail is about bugs in computer programs how to find them how to reproduce them and how to fix them in such a way that they do not occur anymore This is the first comprehensive book on systematic debugging and covers a wide range of tools and techniques ranging from hands on observation to fully automated diagnoses and includes instructions for building automated debuggers This discussion is built upon a solid theory of how failures occur rather than relying on seat of the pants techniques which are of little help with large software systems or to those learning to program The author Andreas Zeller is well known in the programming community for creating the GNU Data Display Debugger DDD a tool that visualizes the data structures of a program while it is running Winner of a 2006 Jolt Productivity Award for Technical Books Shows how to reproduce software failures faithfully how to isolate what is important about the failure and to discover what caused it Describes how to fix the program in the best possible way and shows how to create your own automated debugging tools Includes exercises and extensive references for further study **Why Data Science Projects Fail** Douglas Gray, Evan Shellshear, 2024-09-05 The field of artificial intelligence data science and analytics is crippling itself Exaggerated promises of unrealistic technologies simplifications of complex projects and marketing hype are leading to an erosion of trust in one of our most critical approaches to making decisions data driven This book aims to fix this by countering the AI hype with a dose of realism Written by two experts in the field the authors firmly believe in the power of mathematics computing and analytics but if false expectations are set and practitioners and leaders don't fully understand everything that really goes into data science projects then a stunning 80% or more of analytics projects will continue to fail costing enterprises and society hundreds of billions of dollars and leading to non experts abandoning one of the most important data driven decision making capabilities altogether For the first time business leaders practitioners students and interested laypeople will learn what really makes a data science project successful By illustrating with many personal stories the authors reveal the harsh realities of implementing AI and analytics **Why AI Undermines Democracy and What To Do About It** Mark Coeckelbergh, 2024-02-15 Across the world AI is used as a tool for political manipulation and totalitarian repression Stories about AI are often stories of polarization discrimination surveillance and oppression Is democracy in danger And can we do anything about it In this compelling and balanced book Mark Coeckelbergh reveals the key risks posed by AI for democracy

He argues that AI as currently used and developed undermines fundamental principles on which liberal democracies are founded such as freedom and equality How can we make democracy more resilient in the face of AI And more positively what can AI do for democracy Coeckelbergh advocates not only for more democratic technologies but also for new political institutions and a renewal of education to ensure that AI promotes rather than hinders the common good for the twenty first century Why AI Undermines Democracy and What to Do About It is illuminating reading for anyone who is concerned about the fate of democracy Now available as an audiobook Chatbot Research and Design Asbjørn Følstad, Theo Araujo, Symeon Papadopoulos, Effie L.-C. Law, Ewa Luger, Morten Goodwin, Sebastian Hobert, Petter Bae Brandtzaeg, 2024-03-12 This book constitutes the proceedings of the 7th International Workshop on Chatbot Research and Design CONVERSATIONS 2023 which was held during November 2023 The 12 regular papers were carefully reviewed and selected for inclusion in the book They were organized in following topical sections Understanding and Enhancing Conversational Interactions LLM driven Conversational Design and Analysis Ethical Perspectives and Bias Complementing Perspectives **Successes and Failures of Knowledge Management** Jay Liebowitz, 2016-06-17 Successes and Failures of Knowledge Management highlights examples from across multiple industries demonstrating where the practice has been implemented well and not so well so others can learn from these cases during their knowledge management journey Knowledge management deals with how best to leverage knowledge both internally and externally in organizations to improve decision making and facilitate knowledge capture and sharing It is a critical part of an organization s fabric and can be used to increase innovation improve organizational internal and external effectiveness build the institutional memory and enhance organizational agility Starting by establishing KM processes measures and metrics the book highlights ways to be successful in knowledge management institutionalization through learning from sample mistakes and successes Whether an organization is already implementing KM or has been reluctant to do so the ideas presented will stimulate the application of knowledge management as part of a human capital strategy in any organization Provides keen insights for knowledge management practitioners and educators Conveys KM lessons learned through both successes and failures Includes straightforward jargon free case studies and research developed by the leading KM researchers and practitioners across industries *The Psychology of AI Adoption: 21 Insights Every Leader Needs to Know* Jens Belner, 2025-02-14 The Psychology of AI Adoption 21 Insights Every Leader Needs to Know AI adoption isn t a tech challenge it s a human one Why do companies invest millions in AI tools only to see employees avoid using them Because the real obstacle isn t the technology it s human psychology In this eye opening book The Psychology of AI Adoption you ll discover why people resist AI even when it promises to make their jobs easier and how to break through that resistance using proven psychological principles Drawing on cutting edge research real world case studies and practical tools like micro stacking and journaling this book reveals the 21 key psychological insights every leader needs to drive successful AI adoption What you ll learn The Fear Factor Why AI feels like a threat and how to turn fear into

curiosity Cognitive Overload How to simplify complex AI tools so teams don't feel like they're drinking from a firehose  
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 humans AI is 20% tech and 80% psychology Get the human part right and the tech will follow *The Promise and Peril of AI  
 and IA* Ted Peters, 2023-12-31 How should public theologians and social ethicists assess anticipate and amend the projected  
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 High Reliability Approach to AI in Healthcare Dr. Rubin Pillay, 2025-08-07 A High Reliability Approach to AI in Healthcare  
 Lessons from the Flightdeck is a bold and timely guide to one of the most critical transformations in modern medicine the  
 integration of artificial intelligence into healthcare safely ethically and effectively In a field where complexity is high stakes  
 are higher and tolerance for error should be zero AI presents both an extraordinary opportunity and a profound challenge  
 Drawing powerful parallels between the cockpit and the clinic Dr Rubin Pillay introduces a high reliability framework  
 inspired by aviation to help healthcare leaders clinicians and technologists navigate the implementation of AI with rigor and  
 responsibility Through vivid case studies practical strategies and visionary insights Dr Pillay illustrates how the principles  
 that keep modern aircraft safe redundancy simulation systems thinking and culture of accountability can and must be applied  
 to AI in medicine This is not a book about hype It's a roadmap for those serious about making AI work where it matters most  
 at the point of care Whether you're a healthcare executive a frontline clinician or a technology innovator this book will  
 challenge your assumptions sharpen your thinking and equip you to lead in an AI powered healthcare future **AI Code  
 Revolution with Vibe Coding** Rajender Kumar, 2025-08-29 Build Software Through Conversation The AI Coding Revolution  
 Starts Here Transform from idea to working application in hours not months Master the art of conversational programming  
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 experiencing its most significant transformation since the internet's inception AI Code Revolution with Vibe Coding positions  
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complex syntax This comprehensive guide reveals how to harness conversational AI to build sophisticated applications without memorizing programming languages or debugging endless lines of code Whether you re a seasoned developer seeking 10x workflow acceleration or a creative entrepreneur with zero coding experience this book unlocks the power to transform ideas into reality at unprecedented speed The Financial Impact Save Time Earn More Compress development timelines from months to hours using rapid prototyping techniques Reduce development costs by up to 80% through AI assisted coding workflows Access high paying remote opportunities in the growing AI development market Build and launch MVPs faster than traditional development teams Automate repetitive coding tasks to focus on high value creative problem solving Who Is This Book For For Experienced Developers Accelerate your workflow stay competitive in the AI era and command premium rates by mastering conversational programming techniques that set you apart from traditional coders For Aspiring Programmers Skip years of syntax memorization and debugging frustration Learn to build real applications through natural conversation while developing the mindset needed for AI powered development careers For Entrepreneurs and Business Leaders Turn your ideas into working prototypes without hiring expensive development teams Understand AI development capabilities to make informed technology decisions and communicate effectively with technical teams For Creative Professionals Bridge the gap between creative vision and technical implementation Build interactive projects automate workflows and bring digital concepts to life without traditional programming barriers What Makes This Book Stand Out Unlike generic AI tutorials or traditional programming books this guide introduces Vibe Coding a revolutionary approach that treats AI as your collaborative coding partner You ll develop the Next Gen Explorer Mindset essential for thriving in an AI powered future learning not just what to build but how to think strategically about human AI collaboration in software development The book provides hands on practical experience with real world projects rather than theoretical concepts Every chapter includes step by step implementations using current AI tools ensuring you gain immediately applicable skills that translate into professional opportunities Complete Chapter Breakdown Chapter 1 The Dawn of AI Powered Development Discover how AI is fundamentally reshaping software development and why traditional coding education is becoming obsolete Learn the economic forces driving the conversational programming revolution and how early adopters are gaining competitive advantages Chapter 2 Foundations of Conversational Programming Master the core principles of communicating with AI to generate functional code Develop effective prompting strategies and understand how to structure conversations that produce reliable maintainable software solutions Chapter 3 The Next Gen Explorer Mindset Cultivate the curious experimental approach essential for AI powered development success Learn to embrace uncertainty iterate rapidly and think strategically about human AI collaboration in creative problem solving Chapter 4 Rapid Prototyping Fundamentals Transform ideas into working prototypes using AI assisted development workflows Master techniques that compress traditional development cycles from months to hours while maintaining quality and functionality Chapter 5 Mastering AI Coding Tools

and Platforms Navigate the landscape of AI development tools including ChatGPT GitHub Copilot and emerging platforms Learn when to use each tool and how to integrate them into seamless development workflows Chapter 6 Low Code and No Code Revolution Understand the strategic applications of low code and no code platforms within AI powered development Learn to choose the right approach for different project requirements and business contexts Chapter 7 Web Development with Conversational AI Build responsive interactive web applications through natural conversation Master frontend and backend development using AI assistance while understanding modern web development best practices Chapter 8 Mobile App Development Through AI Conversations Create native and cross platform mobile applications using conversational programming techniques Learn to navigate mobile development complexity through AI guided workflows and rapid iteration Chapter 9 Database Design and Management with AI Design implement and manage databases through conversational AI interfaces Master data modeling query optimization and database administration without deep SQL expertise Chapter 10 DevOps and Deployment Automation Automate deployment pipelines server management and monitoring systems using AI assisted DevOps practices Learn to scale applications efficiently while minimizing operational complexity Chapter 11 Advanced AI Coding Techniques Explore sophisticated AI programming patterns including machine learning integration API development and complex system architecture through conversational programming approaches Chapter 12 Building Real World Projects Apply your skills to complete production ready projects including e commerce platforms data dashboards and automation systems Gain portfolio worthy experience through guided implementations Chapter 13 The Future of AI Powered Development Understand emerging trends prepare for industry evolution and position yourself for long term success in the AI powered development landscape Learn to stay ahead of technological changes Your Gateway to the AI Development Economy This isn't just another programming book it's your strategic guide to participating in the 650 billion software development industry's transformation The skills you'll master are in immediate demand with companies actively seeking professionals who can bridge human creativity and AI capabilities Ready to revolutionize how you think about software development Join thousands of developers and entrepreneurs who are already building the future through conversation

**AI Leadership Blueprint - Hong Kong's Path to Global Excellence: Insights from the EU AI Act and ISO 42001 for Policy Makers** Alfons Futterer, 2025-05-12 Designed for policymakers business leaders regulators and technology professionals this book demystifies complex AI regulations and provides a real world roadmap It highlights the unique opportunity Hong Kong has to shape its own adaptive future ready framework one that supports economic growth ethical AI and global alignment Whether you're setting strategy influencing policy or driving corporate innovation this blueprint will guide your next move in the age of intelligent systems If you believe Hong Kong can lead the world in trusted responsible AI this is your playbook In 2024 Hong Kong slipped to 16th place in the Global AI Index lagging behind Singapore and other global leaders not due to weak infrastructure or limited research capacity but because of a single shortfall the absence of

coherent AI governance AI Leadership Blueprint Hong Kong's Path to Global Excellence presents a clear roadmap to correct this trajectory Through 12 concrete policy recommendations 7 strategic initiatives 5 global case studies and 100 expert references the book outlines how Hong Kong can transform from a regulatory follower into a trusted international AI arbiter This book addresses the most pressing questions in AI governance today How can Hong Kong solve the 16 AI ranking crisis with seven proven initiatives How to achieve 30% faster ISO 42001 compliance for GBA enterprises What legal and institutional models enable trust and innovation at scale How can ISO 42001 accelerate compliance and reduce SME risk by 30% How can regulatory sandboxes AI tribunals and public private task forces build real accountability With over 18 curated expert quotes and a five year leadership roadmap this book is essential for policymakers regulators technologists business leaders and academics shaping the future of responsible AI

*Ethical AI Governance Frameworks* Jade Summers, Are we ready for the ethical future of AI Dive into the powerful insights and practical guidance behind the frameworks that will shape tomorrow's tech world This essential guide empowers policymakers business leaders and developers to responsibly govern AI in a rapidly evolving digital age Explore how ethics can safeguard innovation why bias and accountability matter and how collaborative governance can future proof our societies Whether you're a tech expert or simply AI curious this book makes the complex world of ethical AI accessible engaging and essential Inside you'll discover The impact of AI on privacy fairness and accountability Real world examples of stakeholder collaboration in AI governance Deep dives into global regulatory trends and ethical challenges Frameworks that balance innovation with human values Practical tools for building trustworthy AI systems Take the first step toward shaping a more ethical digital tomorrow

**Agentic Artificial Intelligence** Pascal Bornet, Jochen Wirtz, Thomas H. Davenport, David De Cremer, Brian Evergreen, Phil Fersht, Rakesh Gohel, Shail Khiyara, Pooja Sund, Nandan Mullakara, 2025-03-17 A practical non technical guide for business leaders entrepreneurs and curious minds Agents are bringing about the biggest revolution in computing since we went from typing commands to tapping on icons Bill Gates AI agents will become the primary way we interact with computers in the future Satya Nadella The age of agentic AI is here Jensen Huang In a world where ChatGPT took us by storm a far more powerful revolution is unfolding AI Agents Like Jarvis in Iron Man or Samantha in Her these intelligent systems can execute actions learn from experience and orchestrate digital interactions with minimal human supervision They promise to redefine business and society However behind the excitement lies a crucial reality a significant gap between promise and reality This comprehensive guide on agentic AI cuts through the hype and offers a clear jargon free strategic roadmap to understanding and applying this technology The authors bring a rare perspective having implemented agentic AI across diverse organizations from global enterprises to agile startups witnessing both remarkable successes and sobering failures Through illuminating case studies and hands on experiments the authors reveal A step by step method for identifying high value agentic opportunities and building impactful agents in your business work and personal life The secrets behind today's most



successful agentic transformations at scale cutting costs by over 25% while boosting customer satisfaction by over 40% Approaches to seize the new opportunities of the Agent Economy new business models Agentic driven startups rapid scaling and game changing revenue opportunities Hands on guidance to navigate common pitfalls such as workflow integration error handling data quality agent control and user adoption The new mindset and skills required to lead effectively in a world where humans and AI agents need to work seamlessly together The profound impact of agentic AI on society employment education and our personal lives AI agents create what the authors call compounding intelligence advantages the more they re used the smarter they become creating an accelerating gap between early adopters and laggards Hence those who understand and leverage AI agents today will define the next business era The question isn t whether AI agents will transform your industry it s how you will lead that change Every revolution demands foresight and responsibility This book challenges you to not just adopt agentic AI but to shape it with purpose and integrity

**Artificial Intelligence Safety and Security** Roman V. Yampolskiy, 2018-07-27 The history of robotics and artificial intelligence in many ways is also the history of humanity s attempts to control such technologies From the Golem of Prague to the military robots of modernity the debate continues as to what degree of independence such entities should have and how to make sure that they do not turn on us its inventors Numerous recent advancements in all aspects of research development and deployment of intelligent systems are well publicized but safety and security issues related to AI are rarely addressed This book is proposed to mitigate this fundamental problem It is comprised of chapters from leading AI Safety researchers addressing different aspects of the AI control problem as it relates to the development of safe and secure artificial intelligence The book is the first edited volume dedicated to addressing challenges of constructing safe and secure advanced machine intelligence The chapters vary in length and technical content from broad interest opinion essays to highly formalized algorithmic approaches to specific problems All chapters are self contained and could be read in any order or skipped without a loss of comprehension

**The AI Ladder** Rob Thomas, Paul Zikopoulos, 2020-04-30 AI may be the greatest opportunity of our time with the potential to add nearly 16 trillion to the global economy over the next decade But so far adoption has been much slower than anticipated or so headlines may lead you to believe With this practical guide business leaders will discover where they are in their AI journey and learn the steps necessary to successfully scale AI throughout their organization Authors Rob Thomas and Paul Zikopoulos from IBM introduce C suite executives and business professionals to the AI Ladder a unified prescriptive approach to help them understand and accelerate the AI journey Complete with real world examples and real life experiences this book explores AI drivers value and opportunity as well as the adoption challenges organizations face Understand why you can t have AI without an information architecture IA Appreciate how AI is as much a cultural change as it is a technological one Collect data and make it simple and accessible regardless of where it lives Organize data to create a business ready analytics foundation Analyze data and build and scale AI with trust and transparency Infuse AI throughout

your entire business and create intelligent workflows      *Safety Critical Systems Handbook* David J. Smith, Kenneth G. L. Simpson, 2010-11-11 *Safety Critical Systems Handbook A Straightforward Guide to Functional Safety IEC 61508 2010 Edition and Related Standards Including Process IEC 61511 and Machinery IEC 62061 AND ISO 13849 Third Edition* offers a practical guide to the functional safety standard IEC 61508 The book is organized into three parts Part A discusses the concept of functional safety and the need to express targets by means of safety integrity levels It places functional safety in context along with risk assessment likelihood of fatality and the cost of conformance It also explains the life cycle approach together with the basic outline of IEC 61508 known as BS EN 61508 in the UK Part B discusses functional safety standards for the process oil and gas industries the machinery sector and other industries such as rail automotive avionics and medical electrical equipment Part C presents case studies in the form of exercises and examples These studies cover SIL targeting for a pressure let down system burner control system assessment SIL targeting a hypothetical proposal for a rail train braking system and hydroelectric dam and tidal gates The only comprehensive guide to IEC 61508 updated to cover the 2010 amendments that will ensure engineers are compliant with the latest process safety systems design and operation standards Helps readers understand the process required to apply safety critical systems standards Real world approach helps users to interpret the standard with case studies and best practice design examples throughout      *Zero to AI* Nicolò Valigi, Gianluca Mauro, 2020-05-19 *Summary* How can artificial intelligence transform your business In *Zero to AI* you'll explore a variety of practical AI applications you can use to improve customer experiences optimize marketing help you cut costs and more In this engaging guide written for business leaders and technology pros alike authors and AI experts Nicol Valigi and Gianluca Mauro use fascinating projects hands on activities and real world explanations to make it clear how your business can benefit from AI Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology There's no doubt that artificial intelligence has made some impressive headlines recently from besting chess and Go grand masters to producing uncanny deep fakes that blur the lines of reality But what can AI do for you If you want to understand how AI will impact your business before you invest your time and money this book is for you About the book *Zero to AI* uses clear examples and jargon free explanations to show the practical benefits of AI Each chapter explores a real world case study demonstrating how companies like Google and Netflix use AI to shape their industries You begin at the beginning with a primer on core AI concepts and realistic business outcomes To help you prepare for the transition the book breaks down a successful AI implementation including advice on hiring the right team and making decisions about resources risks and costs What's inside Identifying where AI can help your organization Designing an AI strategy Evaluating project scope and business impact Using AI to boost conversion rates curate content and analyze feedback Understanding how modern AI works and what it can't do About the reader For anyone who wants to gain an understanding of practical artificial intelligence and learn how to design and develop projects with high business impact About the author Gianluca Mauro and

Nicol Valigi are the cofounders of AI Academy a company specializing in AI trainings and consulting

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**The Art of AI Product Development** Janna Lipenkova, 2025-06-24

A hands on guide for delivering value with AI driven products

Learn how AI can improve content creation accelerate data analysis and upgrade process automation

The Art of AI Product Development offers a clear practical approach to creating products that use AI

It provides real world guidance on defining your AI strategy developing useful AI features and supporting user trust and adoption

Rather than chasing trends the book focuses on core principles and long term thinking foundations that remain relevant as the field evolves

Inside The Art of AI Product Development you will learn vital skills for the effective use of AI including

Identifying market and business opportunities for AI

Gaining an in depth understanding of modern AI approaches incl predictive AI LLMs Retrieval Augmented Generation and agent systems

Assembling AI solutions that work without the hype

Efficiently communicating with data scientists and ML engineers

Designing user friendly AI interfaces that emphasize trust and transparency

Implementing safe ethical AI with proper governance processes

The Art of AI Product Development is written for product managers tech executives UX designers and anyone responsible for the success of an AI driven product

It introduces a broad spectrum of AI opportunities and case studies from different domains such as marketing supply chain and logistics

You ll carefully progress from initial design conversations through to efficient and secure development and on to deployment and day to day management of AI driven applications

About the technology Integrating AI into your software and processes can create real value for your business and its customers if you do it right

When you re on the hook for delivering AI enabled products you ll need to spot high impact opportunities work effectively with engineers design user centric features avoid common project failures and manage real world launches

This book shows you how

About the book The Art of AI Product Development gives you a clear framework practical tools and real world examples to build confidence and succeed with new AI projects even if you re tackling AI for the first time

You ll love the practical use cases and end to end scenarios from domains such as marketing supply chain management and sustainability

What s inside Ideate shape and prioritize AI opportunities

Develop AI systems with techniques such as prompt engineering RAG and predictive AI

Communicate with different AI stakeholders and promote AI adoption

About the reader Written for software product managers business oriented engineers UX designers startup founders and anyone responsible for developing designing or marketing AI products

No experience with AI required

About the author Dr Janna Lipenkova is the founder of an AI and analytics business where she has successfully managed AI projects for world class companies like BMW Lufthansa and Volkswagen

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space Part 2 4 Predictive AI 5 Exploring and evaluating language models 6 Prompt engineering 7 Search and retrieval augmented generation 8 Fine tuning language models 9 Automating workflows with agentic AI Part 3 10 AI user experience Designing for uncertainty 11 AI governance 12 Working with your stakeholders Appendix A AI development toolbox **KI 2009: Advances in Artificial Intelligence** Bärbel Mertsching, Marcus Hund, Zaheer Aziz, 2009-09-18 This book constitutes the thoroughly refereed proceedings of the 32nd Annual German Conference on Artificial Intelligence KI 2009 held in Paderborn Germany in September 2009 The 76 revised full papers presented together with 15 posters were carefully reviewed and selected from 126 submissions The papers are divided in topical sections on planning and scheduling vision and perception machine learning and data mining evolutionary computing natural language processing knowledge representation and reasoning cognition history and philosophical foundations AI and engineering automated reasoning spatial and temporal reasoning agents and intelligent virtual environments experience and knowledge management and robotics

Transformative Museum Experiences Licia Calvi, Arnold Vermeeren, Amalia Sabiescu, 2025-07-17 Following on the volume Museum Experience Design 2018 this book acknowledges the changing role of museums in society with a focus on designing experiences as vehicles for transformation We look at transformation through a systemic perspective anchored in the experience that museums offer to visitors One facet of our exploration regards the museum experience itself as an instrument for change At this level we conceptualise what we mean by a transformative experience and look at design approaches specifically geared towards inducing transformation We then turn attention towards the way recent changes in the socio political and cultural context reverberated in structural and functional changes inside the museum and connected institutions and communities with shifting museum identities and new forms of cooperation emerging Finally we zoom in on the role of technology in the making of transformative museum experiences looking at opportunities and affordances but also calling for an ethical approach to integration of technology in museum practice

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### **Why Chatbots Fail Introduction**

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