Chatbot Fundamentals An Interactive

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Chatbot Fundamentals An Interactive:

Digital Personality Kuldeep Singh Kaswan,Jagjit Singh Dhatterwal,Anand Nayyar,2024-08-30 A computer that imbibes human characteristics is considered to have a digital personality The character is akin to real life human with his her distinguishing characteristics such as history morality beliefs abilities looks and sociocultural embeddings It also contains stable personality characteristics fluctuating emotional cognitive SOAR technology and motivational states Digital Personality focuses on the creation of systems and interfaces that can observe sense predict adapt to affect comprehend or simulate the following character based on behavior and situation behavior based on character and situation or situation based on character and behavior Character sensing and profiling character aware adaptive systems and artificial characters are the three primary subfields in digital personality Digital Personality has attracted the interest of academics from a wide range of disciplines including psychology human computer interaction and character modeling It is expected to expand quickly as technology and computer systems become more and more intertwined into our daily lives Digital Personality is expected to draw at least as much attention as Affective Computing The goal of affective computing is to enable computers to comprehend both spoken and nonverbal messages from people use implicit body language gaze speech tones and facial expressions etc to infer the emotional state and then reply appropriately or even show affect through interaction modalities More natural and seamless human computer connection would be the larger objective Users will benefit from a more individualized experience as a result Additionally this will affect how well the user performs since they will have the assistance of the robots to do their jobs quickly and effectively This book provides an overview of the character dimensions and how technology is aiding this area of study It offers a fresh portrayal of character from several angles It also discusses the applications of this new field of study   Proceedings of the 4th Business Innovation Sustainability and Technology International Conference (BISTIC 2024) Ika Zutiasari,Dede Rusmana,Muhammad Fuad,2024-11-17 This is an open access book Department of Management Faculty of Economics Universitas Negeri Malang seeks high quality research paper for the 4th Business Innovation Sustainability and Technology International Conference BISTIC 2024 that will be held on July 25th 2024 We invite all professors researchers students practitioners and other enthusiasts to participate in The Business Innovation Sustainability and Technology International Conference BISTIC 2024 to present share and discuss the phenomenon depicted by academic research result as a strategic way to enlarge and enhance the research development together This year BISTIC is held as a virtual conference where there will be online presentation   **Human-Computer Interaction – INTERACT 2021** Carmelo Ardito,Rosa Lanzilotti,Alessio Malizia,Helen Petrie,Antonio Piccinno,Giuseppe Desolda,Kori Inkpen,2021-08-25 The five volume set LNCS 12932 12936 constitutes the proceedings of the 18th IFIP TC 13 International Conference on Human Computer Interaction INTERACT 2021 held in Bari Italy in August September 2021 The total of 105 full papers presented together with 72 short papers and 70 other papers in these books was carefully reviewed

and selected from 680 submissions The contributions are organized in topical sections named Part I affective computing assistive technology for cognition and neurodevelopment disorders assistive technology for mobility and rehabilitation assistive technology for visually impaired augmented reality computer supported cooperative work Part II COVID 19 croudsourcing methods in HCI design for automotive interfaces design methods designing for smart devices designing for the elderly and accessibility education and HCI experiencing sound and music technologies explainable AI Part III games and gamification gesture interaction human centered AI human centered development of sustainable technology human robot interaction information visualization interactive design and cultural development Part IV interaction techniques interaction with conversational agents interaction with mobile devices methods for user studies personalization and recommender systems social networks and social media tangible interaction usable security Part V user studies virtual reality courses industrial experiences interactive demos panels posters workshops The chapter Stress Out Translating Real World Stressors into Audio Visual Stress Cues in VR for Police Training is open access under a CC BY 4 0 license at link springer com The chapter WhatsApp in Politics Collaborative Tools Shifting Boundaries is open access under a CC BY 4 0 license at link springer com **Chatbot** Fouad Sabry,2023-07-05 What Is Chatbot A chatbot is a piece of software that through text or voice interactions attempts to simulate human conversation These conversations often take place online Chatbots are a type of artificial intelligence AI system that can hold a conversation with a user in natural language and simulate the way a human would act as a conversational partner Modern chatbots are capable of holding a conversation with a user in natural language Deep learning and natural language processing are two areas that are frequently utilized in the development of such systems How You Will Benefit I Insights and validations about the following topics Chapter 1 Chatbot Chapter 2 Internet bot Chapter 3 List of chatbots Chapter 4 Virtual assistant Chapter 5 OpenAI Chapter 6 Conversational commerce Chapter 7 LaMDA Chapter 8 ChatGPT Chapter 9 Hallucination artificial intelligence Chapter 10 Generative pre trained transformer II Answering the public top questions about chatbot III Real world examples for the usage of chatbot in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of chatbot technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of chatbot **I, Chatbot** Mark Christopher Marino,2006 **Information Systems and Neuroscience** Fred D. Davis,René Riedl,Jan vom Brocke,Pierre-Majorique Léger,Adriane B. Randolph,Gernot Müller-Putz,2021-10-28 This book presents the proceedings of the NeuroIS Retreat 2021 June 1 3 virtual conference reporting on topics at the intersection of information systems IS research neurophysiology and the brain sciences Readers will discover the latest findings from top scholars in the field of NeuroIS which offer detailed insights on the neurobiology underlying IS behavior essential methods and tools and their applications for IS as well as the application of neuroscience and neurophysiological theories to advance IS theory *Building Chatbots with Python* Thompson

Carter,2025-01-09 Building Chatbots with Python Create Smart and Interactive Bots with Natural Language Processing Step into the future of communication with Building Chatbots with Python This hands on guide empowers developers AI enthusiasts and tech innovators to create intelligent and interactive chatbots that redefine user engagement With a focus on leveraging Python and Natural Language Processing NLP this book takes you from the basics of chatbot development to building advanced conversational agents Whether you re creating a virtual assistant a customer support bot or a unique chatbot for your own projects this guide provides all the tools you need to succeed What You ll Learn The fundamentals of chatbot architecture and design How to implement NLP techniques for understanding and generating human like responses Step by step tutorials using libraries like NLTK spaCy and TensorFlow Integrating chatbots with messaging platforms like Slack Telegram and WhatsApp Techniques for training chatbots with machine learning to improve their performance Real world use cases and best practices for building bots that users love Packed with practical examples Python code snippets and project ideas this book is perfect for developers of all levels Transform the way people interact with technology and unlock the full potential of chatbot development Empower your applications with intelligence and engage users like never before Building Chatbots with Python is your gateway to creating smart intuitive and powerful bots **Conversational AI with Rasa** Xiaoquan Kong,Guan Wang,Alan Nichol,2021-10-08 Create next level AI assistants and transform how customers communicate with businesses with the power of natural language understanding and dialogue management using Rasa Key FeaturesUnderstand the architecture and put the underlying principles of the Rasa framework to practiceLearn how to quickly build different types of chatbots such as task oriented FAQ like and knowledge graph based chatbotsExplore best practices for working with Rasa and its debugging and optimizing aspectsBook Description The Rasa framework enables developers to create industrial strength chatbots using state of the art natural language processing NLP and machine learning technologies quickly all in open source Conversational AI with Rasa starts by showing you how the two main components at the heart of Rasa work Rasa NLU natural language understanding and Rasa Core You ll then learn how to build configure train and serve different types of chatbots from scratch by using the Rasa ecosystem As you advance you ll use form based dialogue management work with the response selector for chitchat and FAQ like dialogs make use of knowledge base actions to answer questions for dynamic queries and much more Furthermore you ll understand how to customize the Rasa framework use conversation driven development patterns and tools to develop chatbots explore what your bot can do and easily fix any mistakes it makes by using interactive learning Finally you ll get to grips with deploying the Rasa system to a production environment with high performance and high scalability and cover best practices for building an efficient and robust chat system By the end of this book you ll be able to build and deploy your own chatbots using Rasa addressing the common pain points encountered in the chatbot life cycle What you will learnUse the response selector to handle chitchat and FAQsCreate custom actions using the Rasa SDKTrain Rasa to handle complex named entity

recognitionBecome skilled at building custom components in the Rasa frameworkValidate and test dialogs end to end in RasaDevelop and refine a chatbot system by using conversation driven deployment processingUse TensorBoard for tuning to find the best configuration optionsDebug and optimize dialogue systems based on RasaWho this book is for This book is for NLP professionals as well as machine learning and deep learning practitioners who have knowledge of natural language processing and want to build chatbots with Rasa Anyone with beginner level knowledge of NLP and deep learning will be able to get the most out of the book   *Transforming Conversational AI* Michael McTear,Marina Ashurkina,2024-02-24 Acquire the knowledge needed to work effectively in conversational artificial intelligence AI and understand the opportunities and threats it can potentially bring This book will help you navigate from the traditional world of dialogue systems that revolve around hard coded scripts to the world of large language models prompt engineering conversational AI platforms multi modality and ultimately autonomous agents In this new world decisions are made by a system that may forever remain a black box for most of us This book aims to eliminate unnecessary noise and describe the fundamental components of conversational AI Past experiences will prove invaluable in constructing seamless hybrid systems This book will provide the most recommended solutions recognizing that it is not always necessary to blindly pursue new tools Written in unprecedented and turbulent times for conversational interfaces you ll see that despite previous waves of advancement in conversational technology now conversational interfaces are gaining unparalleled popularity Specifically the release of ChatGPT in November 2022 by Open AI revolutionized the conversational paradigm and showed how easy and intuitive communication with a computer can be Old professions are being disrupted new professions are emerging and even the most conservative corporations are changing their strategy and experimenting with large language models allocating an unprecedented amount of budget to these projects No one knows for sure the exact future of conversational AI but everyone agrees that it s here to stay What You ll Learn See how large language models are constructed and used in conversational systems Review the risks and challenges of new technologies in conversational AI Examine techniques for prompt engineering Enable practitioners to keep abreast of recent developments in conversational AI Who This Book Is For Conversation designers product owners and product or project managers in conversational AI who wish to learn about new methods and challenges posed by the recent emergence in the public domain of ChatGPT Data scientists final year undergraduates and graduates of computer science   **Global Chatbots** Marco Gottschalk,2024-08-16 In the rapidly evolving digital landscape chatbots have become indispensable tools for businesses and individuals alike Global Chatbots serves as the ultimate guide to mastering AI powered conversational agents This comprehensive resource is designed for both experienced developers and newcomers providing essential knowledge and skills to create chatbots that not only engage but also enhance user experiences on a global scale Explore the Future of Communication Design and deploy intelligent chatbots Learn how to build chatbots that integrate seamlessly with various platforms and services leveraging

advanced AI and natural language processing techniques Understand AI machine learning and NLP Discover the latest advancements in artificial intelligence machine learning and natural language processing that are revolutionizing interactions with technology Real world case studies Gain insights from successful chatbot implementations in sectors like e commerce customer service and healthcare showcasing their impact and effectiveness Why Choose This Book Comprehensive coverage This book offers in depth knowledge on chatbot development from fundamental principles to advanced strategies Practical insights Benefit from hands on tutorials and best practices for optimizing chatbot performance and user engagement Global perspective Explore the impact of chatbots across different regions with an emphasis on regional trends and cultural considerations Chatbots Master both basic and advanced techniques in chatbot development AI Harness artificial intelligence to create responsive and intelligent chatbots Conversational agents Design interactive agents capable of handling complex tasks and queries Natural language processing Enhance your chatbot s understanding and response capabilities through NLP Machine learning Apply machine learning algorithms to continuously improve chatbot performance   *Hands-On Chatbots and Conversational UI Development* Srini Janarthanam,2017-12-29 Build over 8 chatbots and conversational user interfaces with leading tools such as Chatfuel Dialogflow Microsoft Bot Framework Twilio Alexa Skills and Google Actions and deploying them on channels like Facebook Messenger Amazon Alexa and Google Home About This Book Understand the different use cases of Conversational UIs with this project based guide Build feature rich Chatbots and deploy them on multiple platforms Get real world examples of voice enabled UIs for personal and home assistance Who This Book Is For This book is for developers who are interested in creating interactive conversational UIs Chatbots A basic understanding of JavaScript and web APIs is required What You Will Learn Design the flow of conversation between the user and the chatbot Create Task model chatbots for implementing tasks such as ordering food Get new toolkits and services in the chatbot ecosystem Integrate third party information APIs to build interesting chatbots Find out how to deploy chatbots on messaging platforms Build a chatbot using MS Bot Framework See how to tweet listen to tweets and respond using a chatbot on Twitter Publish chatbots on Google Assistant and Amazon Alexa In Detail Conversation as an interface is the best way for machines to interact with us using the universally accepted human tool that is language Chatbots and voice user interfaces are two flavors of conversational UIs Chatbots are real time data driven answer engines that talk in natural language and are context aware Voice user interfaces are driven by voice and can understand and respond to users using speech This book covers both types of conversational UIs by leveraging APIs from multiple platforms We ll take a project based approach to understand how these UIs are built and the best use cases for deploying them We ll start by building a simple messaging bot from the Facebook Messenger API to understand the basics of bot building Then we move on to creating a Task model that can perform complex tasks such as ordering and planning events with the newly acquired by Google Dialogflow and Microsoft Bot framework We then turn to voice enabled UIs that are capable of

interacting with users using speech with Amazon Alexa and Google Home By the end of the book you will have created your own line of chatbots and voice UIs for multiple leading platforms Style and approach This is a practical book where each chapter focuses on a chatbot project The chapters take a step by step approach to help you build intelligent chatbots that act as personal assistants **Building Chatbots Using RAG Technique With Langchain** Adnan Syed, Building RAG Chatbots with LangChain in Python is a definitive guide crafted to empower developers data scientists and AI enthusiasts to master the creation of sophisticated chatbots utilizing the Retrieval Augmented Generation RAG approach This book unravels the intricate synergy between advanced natural language processing technologies and hands on application development with a focus on Python and prominent frameworks such as LangChain and Streamlit From configuring your development environment to deploying dynamic fully interactive AI chatbots this manual offers a structured pathway through detailed instructions real world applications and expert insights Key Features Deep Dive into RAG Delve into the theoretical foundations and operational mechanics of Retrieval Augmented Generation understanding how it fuses retrieval based and generative components to produce nuanced contextually aware responses Practical Tutorials Engage in comprehensive tutorials that guide you step by step through the intricacies of building a RAG based chatbot from scratch integrating essential components such as document loaders text splitters vector databases and advanced generative models Streamlit Integration Learn to employ Streamlit to craft interactive user interfaces that facilitate real time interactions with your chatbot enhancing user experience with minimal frontend coding effort Why Read This Book Bridge Theory and Practice Seamlessly blend conceptual AI frameworks with tangible implementation strategies enhancing both your theoretical understanding and practical skills Hands on Learning Dive into practical examples exercises and code snippets that reinforce learning and facilitate a thorough understanding of complex topics Innovation in AI Position yourself at the forefront of AI technologies by mastering an innovative approach that integrates retrieval and generation for enhanced AI comprehension and response capabilities Reader Takeaways By the end of this book readers will be well equipped to design build and scale advanced RAG chatbots possessing the necessary tools to innovate and implement state of the art AI solutions effectively in various real world scenarios This book not only elevates the reader s technical skills but also enhances their capacity to drive significant advancements in AI applications About the Author Adnan Syed is an experienced AI Engineer with a strong focus on Generative AI Large Language Models LLMs and chatbots With over five years of experience Adnan has applied his expertise to various projects optimizing operations and driving business growth through innovative AI solutions He is also a passionate educator having trained numerous students in data science and AI Under the mentorship of his father Syed Shahbaz a renowned AI and tech genius Adnan developed a deep love for data science and AI from an early age His professional journey in data science began at NeuEra AI later moving to TechZone Academy where he continued to refine his skills and contribute to the AI community Building on this experience Adnan co founded AI Buddy with his father Syed

Shahbaz and other industry experts AI Buddy is dedicated to democratizing AI education ensuring that learners from all backgrounds have the opportunity to explore and master AI technologies **Build Better Chatbots** Rashid Khan,Anik Das,2017-12-13 Learn best practices for building bots by focusing on the technological implementation and UX in this practical book You will cover key topics such as setting up a development environment for creating chatbots for multiple channels Facebook Messenger Skype and KiK building a chatbot design to implementation integrating to IFTT If This Then That and IoT Internet of Things carrying out analytics and metrics for chatbots and most importantly monetizing models and business sense for chatbots Build Better Chatbots is easy to follow with code snippets provided in the book and complete code open sourced and available to download With Facebook opening up its Messenger platform for developers followed by Microsoft opening up Skype for development a new channel has emerged for brands to acquire engage and service customers on chat with chatbots What You Will Learn Work with the bot development life cycle Master bot UX design Integrate into the bot ecosystem Maximize the business and monetization potential for bots Who This Book Is For Developers programmers and hobbyists who have basic programming knowledge The book can be used by existing chatbot developers to gain a better understanding of analytics and the business side of bots **Conversational AI** Andrew Freed,2021-10-12 Conversational AI is a guide to creating AI driven voice and text agents for customer support and other conversational tasks This practical and entertaining book combines design theory with techniques for building and training AI systems In it you ll learn how to find training data assess performance and write dialog that sounds human You ll go from building simple chatbots to designing the voice assistant for a complete call center **Building Chatbots with Python** Sumit Raj,2018-12-12 Build your own chatbot using Python and open source tools This book begins with an introduction to chatbots where you will gain vital information on their architecture You will then dive straight into natural language processing with the natural language toolkit NLTK for building a custom language processing platform for your chatbot With this foundation you will take a look at different natural language processing techniques so that you can choose the right one for you The next stage is to learn to build a chatbot using the API ai platform and define its intents and entities During this example you will learn to enable communication with your bot and also take a look at key points of its integration and deployment The final chapter of Building Chatbots with Python teaches you how to build train and deploy your very own chatbot Using open source libraries and machine learning techniques you will learnto predict conditions for your bot and develop a conversational agent as a web application Finally you will deploy your chatbot on your own server with AWS What You Will Learn Gain the basics of natural language processing using Python Collect data and train your data for the chatbot Build your chatbot from scratch as a web app Integrate your chatbots with Facebook Slack and Telegram Deploy chatbots on your own server Who This Book Is For Intermediate Python developers who have no idea about chatbots Developers with basic Python programming knowledge can also take advantage of the book *Developing Cognitive Bots Using the IBM Watson Engine* Navin

Sabharwal,Sudipta Barua,Neha Anand,Pallavi Aggarwal,2019-12-14 Cognitive Virtual Bots are taking the technology and user experience world by storm This book provides clear guidance on how different cognitive platforms can be used to develop Cognitive Virtual Assistants that enable a conversation by using DialogFlow and advanced Natural Language Processing You will start by understanding the technology landscape and various use cases that Cognitive Virtual Assistants can be used in Early chapters will take you through the basics of Cognitive Virtual Assistants before moving onto advanced concepts and hands on examples of using IBM Watson Assistant and its advanced configurations with Watson Discovery Services Watson Knowledge Studio and Spellchecker Service You ll then examine integrations that enrich the Cognitive Virtual Assistant by providing data around weather locations stock markets The book concludes by providing a glimpse of what to expect in the future for Cognitive Virtual Assistants What You ll Learn Review the fundamentals of Cognitive Virtual Assistants Develop a Cognitive Virtual Assistant from scratch using IBM Watson platform Integrate and enrich your Virtual Agent with other services such as weather location and stocks Instantly deliver your bot on major messaging channels such as Skype SMS and Webchat Train your Cognitive Virtual Agent on specific use cases Who This Book Is ForAI and machine learning engineers cognitive solutions architects and developers would find the book extremely useful   The Artificial Intelligence Chatbot Lon Safko,2019-05-30 Can you tell the difference between chatting with a human or chatting with a robot I will bet you can t Artificial Intelligence Chatbots have surpassed the Turing Test and are interfacing with us everyday Did you know more people will chat with a bot nearly 1 000 more often than to use your Contact form Did you know how a chatbot can identify your prospects by psychological profiles and give them what the need to close the sale Are you aware that chatbots can help you find errors in your web site making your web sit 100 more sticky and answer your prospects questions that immediately leads to a sale Let me show you how an A I Chatbot will encourage your customers to tell you how to sell to them and increase your revenue up to 30% Along with my background in A I I recently studied more than 2 000 A I Chatbot conversations with 22 000 interactions and discovered dozens of completely unexpected positive consequences of having an A I chatbot assisting your customers on your web site Read how easy it is to install and customize your very own A I Chatbot and see the positive effects for yourself   **LangChain For Chatbot Development** Axton Nexus,2025-01-08 Unlock the full potential of conversational AI with this comprehensive guide to LangChain for chatbot development Learn how to build intelligent conversational interfaces that understand and respond to human language using the power of large language models and AI Key Features Master LangChain fundamentals and architecture for chatbot development Learn how to integrate large language models natural language processing and machine learning for conversational AI Discover how to design and implement conversational flows dialog management and intent recognition Get up to date with the latest LangChain features tools and best practices for chatbot development Explore real world examples and case studies of successful conversational AI projects What You Will Learn LangChain fundamentals and architecture for chatbot

development Large language models and natural language processing for conversational AI Dialog management intent recognition and conversational flow design Integration with machine learning and AI frameworks for advanced conversational AI Best practices for LangChain based chatbot development testing and deployment Real world applications and case studies of conversational AI in various industries Target Audience Chatbot developers Conversational AI engineers NLP researchers Machine learning practitioners Software developers Data scientists Business professionals interested in conversational AI Additional Resources Companion website with code examples tutorials and resources Online community forum for discussion and support This book provides a comprehensive guide to LangChain for chatbot development empowering readers to build intelligent conversational interfaces that transform the way businesses interact with customers

Learning LangChain Mayo Oshin,Nuno Campos,2025-02-13 If you re looking to build production ready AI applications that can reason and retrieve external data for context awareness you ll need to master a popular development framework and platform for building running and managing agentic applications LangChain is used by several leading companies including Zapier Replit Databricks and many more This guide is an indispensable resource for developers who understand Python or JavaScript but are beginners eager to harness the power of AI Authors Mayo Oshin and Nuno Campos demystify the use of LangChain through practical insights and in depth tutorials Starting with basic concepts this book shows you step by step how to build a production ready AI agent that uses your data Harness the power of retrieval augmented generation RAG to enhance the accuracy of LLMs using external up to date data Develop and deploy AI applications that interact intelligently and contextually with users Make use of the powerful agent architecture with LangGraph Integrate and manage third party APIs and tools to extend the functionality of your AI applications Monitor test and evaluate your AI applications to improve performance Understand the foundations of LLM app development and how they can be used with LangChain **ChatGPT for Conversational AI and Chatbots** Adrian Thompson,2024-07-30 Explore ChatGPT technologies to create state of the art chatbots and voice assistants and prepare to lead the AI revolution Key Features Learn how to leverage ChatGPT to create innovative conversational AI solutions for your organization Harness LangChain and delve into step by step LLM application development for conversational AI Gain insights into security privacy and the future landscape of large language models and conversational AI Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionChatGPT for Conversational AI and Chatbots is a definitive resource for exploring conversational AI ChatGPT and large language models This book introduces the fundamentals of ChatGPT and conversational AI automation You ll explore the application of ChatGPT in conversation design the use of ChatGPT as a tool to create conversational experiences and a range of other practical applications As you progress you ll delve into LangChain a dynamic framework for LLMs covering topics such as prompt engineering chatbot memory using vector stores and validating responses Additionally you ll learn about creating and using LLM enabling tools monitoring and fine tuning LangChain UI tools such as LangFlow and the LangChain ecosystem

You ll also cover popular use cases such as using ChatGPT in conjunction with your own data Later the book focuses on creating a ChatGPT powered chatbot that can comprehend and respond to queries directly from your unique data sources The book then guides you through building chatbot UIs with ChatGPT API and some of the tools and best practices available By the end of this book you ll be able to confidently leverage ChatGPT technologies to build conversational AI solutions What you will learn Gain a solid understanding of ChatGPT and its capabilities and limitations Understand how to use ChatGPT for conversation design Discover how to use advanced LangChain techniques such as prompting memory agents chains vector stores and tools Create a ChatGPT chatbot that can answer questions about your own data Develop a chatbot powered by ChatGPT API Explore the future of conversational AI LLMs and ChatGPT alternatives Who this book is for This book is for tech savvy readers conversational AI practitioners engineers product owners business analysts and entrepreneurs wanting to integrate ChatGPT into conversational experiences and explore the possibilities of this game changing technology Anyone curious about using internal data with ChatGPT and looking to stay up to date with the developments in large language models will also find this book helpful Some expertise in coding and standard web design concepts would be useful along with familiarity with conversational AI terminology though not essential

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Chatbot Fundamentals An Interactive Introduction

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