

Using OpenAI GPT to Generate Reading Comprehension Items

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Abstract: *The purpose of this study is to introduce and evaluate a method for generating reading comprehension items using template-based automatic item generation. To begin, we describe a new model for generating reading comprehension items called the text analysis cognitive model assessing inferential skills across different reading passages. Next, the text analysis cognitive model is used to generate reading comprehension items where examinees are required to read a passage and identify the irrelevant sentence. The sentences for the generated passages were created using OpenAI GPT-3.5. Finally, the quality of the generated items was evaluated. The generated items were reviewed by three subject-matter experts. The generated items were also administered to a sample of 1,607 Grade-8 students. The correct options for the generated items produced a similar level of difficulty and yielded strong discrimination power while the incorrect options served as effective distractors. Implications of augmented intelligence for item development are discussed.*

Keywords: automatic item generation, item development, reading comprehension

Computer-based testing (CBT) provides many important benefits. CBT eliminates the need for paper-based production, distribution, and scoring. CBT permits testing on-demand thereby allowing examiners to implement a more flexible testing schedule. CBTs are created in one central location but can be administered to examinees in many locations. CBTs contain innovative item types that include different response modalities such as audio and video formats. Items on CBTs can be scored immediately thereby providing examinees with instant feedback (Bartram & Hambleton, 2006; Dragow, 2016; van der Linden & Glas, 2010; Wainer et al., 2000). However, the transition from paper to computer-based testing also raises important item development challenges. Large numbers of diverse, content-specific, high-quality items are required to implement CBT. A comprehensive inventory of test items is imperative for the implementation of a systematic and continuous assessment and evaluation approach within the context of CBT (Gaytan & McEwen, 2007). The large item pool is instrumental in providing students with continuous, prompt, and efficacious feedback, thereby facilitating the ongoing monitoring of their progress (Chen et al., 2019; Weber et al., 2003). Moreover, the deployment of individualized testing and computerized adaptive testing applications necessitates a substantial item reservoir for the precise estimation of parameters and the identification of the saturation point. The determination of the saturation point signifies the juncture at which a student attains the pinnacle of performance, rendering further measurement inherently challenging and there is a pivotal role of a comprehensive item pool in this process (Segall et al.,

1997). Hence, thousands of new items are needed to initially create and then replenish banks to ensure that examinees receive a continuous supply of new content for each test administration. Traditional item development, where subject-matter experts (SME) write one item at a time, can be used to create content for CBT but it is challenging to scale this process efficiently and economically because this approach relies on the item as the unit of analysis. That is, traditional item development requires that each individual item is written by SMEs based on their experience, judgment, and expertise. Then, after the items are written, each item must be edited, reviewed, and revised by SMEs until they meet the appropriate standard of quality (Lane et al., 2016). If 1,500 items are required for CBT, as an example, then 1,500 items must be written, edited, and reviewed by SMEs. As a result, when large numbers of items are needed, large numbers of SMEs who can write unique items are required in order to create the banks necessary to implement CBT.

Overview of AIG

Automatic item generation (AIG) is a technology-based innovation designed to scale the item development process so large numbers of high-quality items can be created efficiently and economically. AIG is the process of using models to generate test items using computer technology (Gierl & Haladyna, 2013; Gierl et al., 2021; Irvine & Kyllonen, 2002). AIG is intended to support the transition to CBT by providing a scalable method for creating items that are both efficient and

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Reading Comprehension Openai Prices

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C. K. Cheng, Tianchong Wang, 2024-12-31 This book is a collection of selected research papers presented at the 2024 5th International Conference on Artificial Intelligence in Education Technology AIET 2024 held in Barcelona Spain on July 29 31 2024 AIET establishes a platform for AI in education researchers to present research exchange innovative ideas propose new models as well as demonstrate advanced methodologies and novel systems It is a timely and up to date publication responsive to the rapid development of AI technologies practices and their increasingly complex interplay with the education domain It promotes the cross fertilisation of knowledge and ideas from researchers in various fields to construct the interdisciplinary research area of AI in Education These subject areas include computer science cognitive science education learning sciences educational technology psychology philosophy sociology anthropology and linguistics The feature of this book will contribute from diverse perspectives to form a dynamic picture of AI in Education It also includes various domain specific areas for which AI and other education technology systems have been designed or used in an attempt to address challenges and transform educational practice Education stands as a cornerstone for societal progress and ensuring universal access to quality education is integral to achieving Goal 4 of the United Nations Sustainable Development Goals SDGs The goal is to ensure inclusive and equitable quality education for all by 2030 This involves not only expanding access to education but also improving the quality of education to promote lifelong learning opportunities AI has the potential to significantly contribute to the achievement of Goal 4 It is committed to exploring how AI may play a role in bringing more innovative practices transforming education and triggering an exponential leap towards the achievement of the Education 2030 Agenda Providing broad coverage of recent technology driven advances and addressing a number of learning centric themes the book is an informative and useful resource for researchers practitioners education leaders and policy makers who are involved or interested in AI and education Supporting Students through High-Quality Teaching Satu

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students It is also equally important for teachers to invest in pedagogical training and conduct research on teaching practices experiments and students perceptions as part of professional development International classrooms also require specific considerations as does online learning The COVID 19 pandemic forced a substantial transfer to online and blended learning in higher education but can quality teaching exist online or have we passed the baton to students to be in charge of their learning to study even more independently *Academy and Literature* Charles Edward Cutts Birch Appleton, Charles Edward Doble, James Sutherland Cotton, Charles Lewis Hind, William Teignmouth Shore, Alfred Bruce Douglas, Ellis Ashmead-Bartlett, Thomas William Hodgson Crosland, 1895 Mastering OpenAI Angela Carol Hughes, 2024-03-30 Discover the full potential of artificial intelligence with *Mastering OpenAI Techniques and Strategies for Effective Learning and Application* This comprehensive book written by renowned AI experts is a valuable resource for both professionals and beginners looking to delve into the world of OpenAI It provides readers with the fundamental knowledge tools and methodologies needed to understand and harness the capabilities of OpenAI OpenAI has revolutionized natural language processing and reinforcement learning enabling developers to create intelligent algorithms *Mastering OpenAI* unravels the intricacies of OpenAI and showcases its various modules such as Jukebox DALL E GPT 3 ChatGPT and Codex Each chapter explores these technologies offering insights to enhance programming skills and deploy AI applications effectively The book also includes detailed implementation strategies and comprehensive tutorials allowing readers to gain hands on experience With practical code samples and development workflows readers can strengthen their conceptual understanding while building real world applications They will become fluent in pivotal models like LLM and gain comprehension of reinforcement learning and meta learning techniques Ethical considerations are a crucial aspect of AI development and *Mastering OpenAI* addresses this by dedicating a chapter to ethical challenges The authors shed light on fairness biases and privacy concerns that can arise when implementing OpenAI models By proactively addressing these concerns readers can make informed decisions and ensure responsible AI development The book also explores OpenAI s potential contributions to solving global challenges sparking ideas that can transform industries and accelerate scientific breakthroughs Case studies in domains like healthcare education climate modeling and game strategy demonstrate the value and solutions OpenAI brings *Mastering OpenAI* empowers readers to become intuitive problem solvers and creative developers in the field of artificial intelligence It breaks down the complexity of OpenAI into digestible concepts equipping readers with the knowledge and strategies to navigate its technologies By staying at the forefront of this evolving field readers can capitalize on new possibilities and make impactful contributions to society If you re determined to explore the dimensions of OpenAI and expand your AI repertoire *Mastering OpenAI Techniques and Strategies for Effective Learning and Application* is your essential guide Embark on an empowering journey and unlock the full potential of OpenAI **Exploring GPT-3** Steve Tingiris, Bret Kinsella, 2021-08-27 Get started with GPT 3 and the OpenAI API for natural language processing using JavaScript and Python Key

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Table of Contents Reading Comprehension Openai Prices

1. Understanding the eBook Reading Comprehension Openai Prices
 - The Rise of Digital Reading Reading Comprehension Openai Prices
 - Advantages of eBooks Over Traditional Books
2. Identifying Reading Comprehension Openai Prices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Reading Comprehension Openai Prices
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reading Comprehension Openai Prices
 - Personalized Recommendations
 - Reading Comprehension Openai Prices User Reviews and Ratings
 - Reading Comprehension Openai Prices and Bestseller Lists

5. Accessing Reading Comprehension Openai Prices Free and Paid eBooks
 - Reading Comprehension Openai Prices Public Domain eBooks
 - Reading Comprehension Openai Prices eBook Subscription Services
 - Reading Comprehension Openai Prices Budget-Friendly Options
6. Navigating Reading Comprehension Openai Prices eBook Formats
 - ePub, PDF, MOBI, and More
 - Reading Comprehension Openai Prices Compatibility with Devices
 - Reading Comprehension Openai Prices Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reading Comprehension Openai Prices
 - Highlighting and Note-Taking Reading Comprehension Openai Prices
 - Interactive Elements Reading Comprehension Openai Prices
8. Staying Engaged with Reading Comprehension Openai Prices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reading Comprehension Openai Prices
9. Balancing eBooks and Physical Books Reading Comprehension Openai Prices
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reading Comprehension Openai Prices
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Reading Comprehension Openai Prices
 - Setting Reading Goals Reading Comprehension Openai Prices
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reading Comprehension Openai Prices
 - Fact-Checking eBook Content of Reading Comprehension Openai Prices
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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