

Using OpenAI GPT to Generate Reading Comprehension Items

Ayfer Sayin,  Education Science, Gazi University and Mark Gierl, Educational Psychology Department, University of Alberta

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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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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Book Description Generative Pre trained Transformer 3 GPT 3 is a highly advanced language model from OpenAI that can generate written text that is virtually indistinguishable from text written by humans Whether you have a technical or non technical background this book will help you understand and start working with GPT 3 and the OpenAI API If you want to get hands on with leveraging artificial intelligence for natural language processing NLP tasks this easy to follow book will help you get started Beginning with a high level introduction to NLP and GPT 3 the book takes you through practical examples that show how to leverage the OpenAI API and GPT 3 for text generation classification and semantic search You ll explore the capabilities of the OpenAI API and GPT 3 and find out which NLP use cases GPT 3 is best suited for You ll also learn how to use the API and optimize requests for the best possible results With examples focusing on the OpenAI Playground and easy to follow JavaScript and Python code samples the book illustrates the possible applications of GPT 3 in production By the end of this book you ll understand the best use cases for GPT 3 and how to integrate the OpenAI API in your applications for a wide array of NLP tasks What you will learn Understand what GPT 3 is and how it can be used for various NLP tasks Get a high level introduction to GPT 3 and the OpenAI API Implement JavaScript and Python code examples that call the OpenAI API Structure GPT 3 prompts and options to get the best possible results Select the right GPT 3 engine or model to optimize for speed and cost efficiency Find out which use cases would not be suitable for GPT 3 Create a GPT 3 powered knowledge base application that follows OpenAI guidelines Who this book is for Exploring GPT 3 is for anyone interested in natural language processing or learning GPT 3 with or without a technical background Developers product managers entrepreneurs and hobbyists looking to get to grips with NLP AI and GPT 3 will find this book useful Basic computer skills are all you need to get the most out of this book

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