

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; Drasgow, 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 & Hala-dyna, 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

Reading Comprehension Openai 2025

Naomi S. Baron

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Coexisting with AI Kay Firth-Butterfield,2026-01-05 Your comprehensive easy to understand guide on AI s impact in business and life Coexisting with AI Work Love and Play in a Changing World is an exploration of how AI can be used at each stage of our lives It helps readers understand the positive impact of AI and where governance is needed from both an individual and business perspective From childhood through to aging this book delivers a holistic understanding of this exciting new technology in language that anyone can understand regardless of technical expertise Written by Kay Firth Butterfield former inaugural Head of AI at the World Economic Forum and one of the most foremost experts in the world on the governance of AI topics explored in this book include An explanation of AI and Chatbots and their dependence on data How to use AI wisely in business with your children and in your life How AI might be used in politics and war The good bad and ugly of AI now and into the future AI s potential to solve some of humanity s biggest problems from human trafficking to disease Essential governance considerations to make AI a beneficial technological development for all Coexisting With AI earns a well deserved spot on the bookshelves of all individuals from tech executives to curious citizens seeking expert insight on where AI can take us and how to plot the best path forward for your family and business

Reader Bot Naomi S.

Baron,2026-01-20 What happens to human reading when AI bots can do it for us Explosive developments in artificial intelligence have awed everyday users with the technology s ability to draw do computer coding and especially to write Those AI generated essays and poems legal briefs and responses to requests for information are all visible evidence of large language models at work What we don t see is the critical prior step before it can write AI needs to read While AI s written outcomes are remarkably similar to what a diligent student lawyer or researcher might produce AI doesn t read the way that humans do Now that AI is proving an adept reader what happens to our own reading skills and motivations especially at a time when both voluntary and school reading are increasingly on the decline We have learned that when we let chatbots write for us there are pros and cons to handing over our virtual pens It s critical that we also think through the consequences of relinquishing reading a deeply human activity to bots What do we stand to gain and lose when we let AI read for us Tracing the intersecting trajectories of AI and reading Reader Bot tackles this vital question revealing why we must be thoughtful about how we welcome AI as reader into our lives

Rational Decisions in Organisations Frédéric Adam,Dorota

Kuchta,Stanisław Stanek,2022-05-30 Managers in organisations must make rational decisions Rational decision making is the opposite of intuitive decision making It is a strict procedure utilising objective knowledge and logic It involves identifying the problem to solve gathering facts identifying options and outcomes analysing them considering all the relationships and selecting the decision Rational decision making requires support methods and software tools The identification of the problem to solve needs methods that would measure and evaluate the current situation Identification and evaluation of options and analysis of the available possibilities involves analysis and optimisation methods Incorporating intuition into

rational decision making needs adequate methods that would translate ideas or observed behaviours into hard data. Communication, observation, and opinions recording is hardly possible today without adequate software. Information and data that form the input intermediate variables and the output must be stored, managed, and made accessible in a user-friendly manner. Rational Decisions in Organisations: Theoretical and Practical Aspects presents selected recent developments in the support of the widely understood rational decision making in organisations, illustrated through case studies. The book shows not only the variety of perspectives involved in decision making but also the variety of domains where rational decision support systems are needed. The case studies present decision making by medical doctors, students, and managers of various universities, IT project teams, construction companies, banks, and small and large manufacturing companies. Covering the richness of relationships in which the decisions should and must be taken, the book illustrates how modern organisations operate in chains and networks. They have multiple responsibilities including social, legal, business, and ethical duties. Nowadays, managers in organisations can make transparent decisions and consider a multitude of stakeholders and their diverse features, incorporating diverse criteria using multiple types and drivers of information and decision making patterns and referring to numerous lessons learned. As the book makes clear, the marriage of theoretical ideas with the possibilities offered by technology can make the decisions in organisations more rational and at the same time more human.

Higher Education in the Arab World Adnan Badran, Elias Baydoun, Sandra Hillman, Joelle Mesmar, 2026-01-01

The term Artificial Intelligence (AI) was first coined in 1956 by John McCarthy, who is considered to be the father of AI. He defined AI as the science and engineering of making intelligent machines. Since then, AI has metamorphosed into computing systems characterized by human-like processes such as learning, adapting, synthesizing, self-correction, and the use of data for complex processing tasks. Within the higher education landscape, AI is emerging as a powerful change agent, often referred to as AI in Education (AIEd). Grasping the essence of AIEd within the higher education milieu is imperative. Commonly described as the advent of the Smart University, AIEd represents a paradigm shift in the operational ethos of Universities and Colleges. Smart Universities, in the context of AIEd, are marked by several key characteristics. With regards to admissions and enrollment, AIEd tools can harness data on a plethora of metrics, including recruitment, retention, and graduation outcomes. Teaching and learning are now entering an era of personalization and adaptability, thanks to the facilitative role of AIEd instruments. These digital tools are instrumental in pinpointing at-risk scholars, projecting academic trajectories, ensuring originality via plagiarism checks, and guiding course selection. Researchers are also benefiting from AIEd tools to sift through large data banks and analyze and identify patterns and insights that can inform their practice. Administrative spheres similarly reap the benefits of AIEd's prowess, yielding heightened efficiency in operations, financial stewardship, and resource management, an endeavor that alleviates administrative load and consequently relocates fiscal resources towards educational and research priorities. AIEd is also designed to optimize human resource processes from recruitment and onboarding to performance

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In The Big Book of Tools for RTI at WorkTM William M Ferriter Mike Mattos and Rob J Meyer deliver a robust set of tools for teachers and leaders to employ on their journey to implementing effective additional support for struggling students Practical and full of resources this book supplies educators with the means to transform their school response to intervention process and create a highly effective multitiered system of supports K 12 administrators teachers and leaders can Use this book to support implementation of the intervention process outlined in the second edition of Taking Action A Handbook for RTI at Work Create a guiding coalition discover how to build a culture of collective teacher efficacy and intentionally and carefully design effective Tier 1 instruction Gain access to templates surveys checklists reflection prompts and other resources Monitor and assess the effectiveness of their Tier 1 Tier 2 and Tier 3 intervention efforts Evaluate their school s readiness to successfully implement the RTI at Work MTSS process Contents Introduction Chapter 1 Grasping the Bigger Picture Chapter 2 Tools for Establishing a Culture of Collective Responsibility Chapter 3 Tools for Building Tier 1 of Your Intervention Pyramid Chapter 4 Tools for Building Tier 2 of Your Intervention Pyramid Chapter 5 Tools for Building Tier 3 of Your Intervention Pyramid Epilogue References and Resources Index

Teaching Reading

Comprehension in a Digital World Marian Bruggink, Nicole Swart, Annelies van der Lee, Eliane Segers, 2025-01-15 This open access book helps teachers include the reading of digital texts in their curriculum Using ePIRLS it informs teachers about digital reading and evidence based teaching principles for digital reading This publication raises awareness about digital inclusion within schools and how this affects students opportunities to learn This volume describes recent scientific insights regarding digital reading and emphasizes the importance of digital inclusion within schools Evidence based didactic guidelines for digital reading are described to help teachers learn more about supporting their students in reading digital texts Using an ePIRLS text it discusses the challenges students encounter in reading digital texts and concretizes the didactic suggestions Additionally good practices from PIRLS countries regarding digital reading are highlighted which can be an inspiration to teachers across the world

Small Groups for Big Readers Taylar B. Wenzel, Analexis Kennedy, Dena D.

Slanda, Melissa R. Carli, 2025-03-11 In Small Groups for Big Readers the authors advocate for small group reading instruction as an effective way for teachers to help all students grow as skilled developing readers Through small group instruction K 5 teachers can differentiate instruction by using evidence based routines adopting an asset based lens and selecting texts tailored to students unique interests needs and goals creating deeper engagement in reading K 5 teachers can use this book to Understand and apply evidence based routines that promote equitable accessible literacy instruction Enhance students reading and knowledge building through carefully planned interactions and opportunities with text Empower students by

establishing clear goals and guidelines for small group lessons Plan for extended learning opportunities that provide sufficient deliberate practice for literacy development Extend professional expertise by selecting and adapting strategies to differentiate literacy instruction using a flexible choose your own adventure format to customize learning based on individual goals and needs Contents Introduction Chapter 1 What Do I Know About My Students as Readers Chapter 2 How Does Differentiating Small Group Instruction Promote Access and Equity Chapter 3 How Do I Connect to Whole Group Instruction Chapter 4 How Do I Plan for Small Group Instruction Chapter 5 How Do I Select and Evaluate Text Chapter 6 How Do I Engage My Readers During Small Group Instruction Chapter 7 How Do I Monitor and Respond to My Students as Readers Chapter 8 How Does Writing Connect to My Small Group Instruction Chapter 9 How Do I Build My Students Disciplinary Knowledge Chapter 10 What Are the Rest of the Students Doing While I'm Teaching a Small Group Epilogue Appendix

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