Exploring the Responses of Large Language Models to Beginner Programmers' Help Requests

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ABSTRACT

Background and Context: Over the past year, large language models (LLMs) have taken the world by storm. In computing education, like in other walks of life, many opportunities and threats have emerged as a consequence.

Objectives: In this article, we explore such opportunities and threats in a specific area: responding to student programmers' help requests. More specifically, we assess how good LLMs are at identifying issues in problematic code that students request help on.

Method: We collected a sample of help requests and code from an online programming course. We then prompted two different LLMs (OpenAI Codex and GPT-3.5) to identify and explain the issues in the students' code and assessed the LLM-generated answers both quantitatively and qualitatively.

Findings: GPT-3.5 outperforms Codex in most respects. Both LLMs frequently find at least one actual issue in each student program (GPT-3.5 in 90% of the cases). Neither LLM excels at finding all the issues (GPT-3.5 finding them 57% of the time). False positives are common (40% chance for GPT-3.5). The advice that the LLMs provide on the issues is often sensible. The LLMs perform better on issues involving program logic rather than on output formatting. Model solutions are frequently provided even when the LLM is prompted not to. LLM responses to prompts in a non-English language are only slightly worse than responses to English prompts.

Implications: Our results continue to highlight the utility of LLMs in programming education. At the same time, the results highlight the unreliability of LLMs: LLMs make some of the same mistakes that students do, perhaps especially when formatting output as required by automated assessment systems. Our study informs teachers interested in using LLMs as well as future efforts to customize LLMs for the needs of programming education.

CCS CONCEPTS

- **Social and professional topics** → *Computing education*; - **Computing methodologies** → *Natural language generation*.

KEYWORDS

large language models, introductory programming education, CS1, help seeking, student questions, automatic feedback, OpenAI Codex, GPT

1 INTRODUCTION

Within the last year, large language models (LLMs) and tools built on them, such as ChatGPT and GitHub Copilot, have broken into the mainstream. Computing education research (CER), too, has seen an explosion of recent work exploring the opportunities and challenges that LLMs bring. Opportunities in computing education include the automation of natural-language explanations of code [43, 51, 53, 76], personalized exercises [18, 76], enhanced error messages [45], and assistance in solving CS1 exercises [89]. Challenges include student over-reliance and plagiarism [6, 16, 22, 71] as well as biases in generated content [6, 59].

For better or worse, vast numbers of students are already using LLMs to assist them in their studies. Such use is likely only to increase in the future. Some student use of LLMs will happen unofficially at each student's discretion and will employ highly generic tools akin to ChatGPT[1] or programming-generic tools such as Codex[2]. The future may also see custom LLMs that have been designed to assist students of programming and that teachers adopt as official components of programming courses.

One potential application of LLMs is to respond to students' help requests. In an ideal world, an LLM might assist a programming student who asks for help in many of the same ways that a

[1]https://openai.com/blog/chatgpt
[2]https://openai.com/blog/openai-codex

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