

# PROCEEDINGS OF LONDON INTERNATIONAL CONFERENCES

eISSN 2977-1870

## Possible Productivity Effects on Software Engineers by Advanced Artificial Intelligence

Arsha Sheikhi\*  
Hamzah Raof\*\*  
Zaid Khan\*\*\*  
Merve Kevser Gokgol\*\*\*\*

### Abstract

Within the past few years, starting from the greater public use of AI from the recent “AI Boom,” ChatGPT or AI-Language Model equivalents have been making their way into software and other computer science-related work environments for developers and software engineers to use without significant financial cost. In this paper, we often mention the word “productivity,” so it is important to know how we measure this: we measure productivity in lines of code (LOC) to gauge the raw amount of coding done, bug resolutions done by developers to measure the reviewing of code, and customer satisfaction to measure the quality of the code, then combine all of these into “overall productivity.” In this paper, we will examine the effects on productivity that these Large Language Models (LLMs) have had on software engineering or other similar jobs.

**Keywords:** AI, Artificial Intelligence, Productivity, Programming Jobs, Computer Science, Software Engineering



<https://doi.org/10.31039/plic.2024.11.265>

\*HS of Endeavor – Austin, [arshasheikhi@gmail.com](mailto:arshasheikhi@gmail.com)

\*\*HS of Endeavor – Austin, [hamzahraoof@gmail.com](mailto:hamzahraoof@gmail.com)

\*\*\*HS of Endeavor – Austin, [zadi7911@gmail.com](mailto:zadi7911@gmail.com)

\*\*\*\*HS of Endeavor – Austin, [mervekevser@gmail.com](mailto:mervekevser@gmail.com)

13<sup>th</sup> London International Conference, July 24-26, 2024



This work is licensed under a [Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License](https://creativecommons.org/licenses/by-nc-nd/4.0/)