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Review of Artificial General Intelligence (AGI): Implications for the U.S. Workforce and Economic Stability

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Abstract

Artificial General Intelligence (AGI) is poised to transform the global workforce, raising hopes and concerns across sectors. Artificial General Intelligence (AGI), defined as AI systems possessing human-level cognitive abilities across a broad range of tasks, stands on the horizon as a potentially transformative force for society. This paper presents a systematic review of over 40 contemporary sources examining Artificial General Intelligence (AGI) and its projected impacts on workforce dynamics. This paper further provides a comprehensive review of the predicted and potential impacts of AGI on the global job market. We analyze key themes including job displacement risks, emerging employment paradigms, and policy considerations in preparation for AGI integration. Drawing upon recent literature, we explore various facets, including job displacement, the emergence of new roles, economic implications such as wage dynamics, and the critical need for workforce adaptation through reskilling and upskilling initiatives. Furthermore, we delve into the societal and ethical considerations surrounding AGI's development and deployment, including concerns about preparedness, timelines for its arrival, and the imperative for responsible governance. By synthesizing diverse perspectives, this review aims to offer a holistic understanding of how AGI could reshape employment landscapes, urging proactive measures from policymakers, educators, and individuals to navigate this evolving future. The synthesis reveals divergent expert perspectives on both AGI timelines and socioeconomic consequences, highlighting critical gaps in workforce preparedness.

Keywords; Artificial General Intelligence (AGI), Job Market, Employment, Workforce Transformation, Economic Impact, Reskilling, Ethics, Future of Work.

INTRODUCTION

The emergence of Artificial General Intelligence (AGI) presents unprecedented challenges for global labor markets. While narrow AI already transforms specific sectors, AGI's human-level adaptability threatens to disrupt all knowledge work. Artificial Intelligence (AI) has rapidly advanced, moving from specialized, narrow applications to the theoretical and increasingly discussed realm of Artificial General Intelligence (AGI). AGI refers to AI systems capable of understanding, learning, and applying intelligence to any intellectual task that a human being can. Artificial General Intelligence (AGI) refers to AI systems capable of performing any intellectual task that a human can. Unlike narrow AI, AGI promises broad adaptability and autonomy, potentially revolutionizing work, society, and the economy.

Artificial Intelligence (AI) has rapidly advanced, moving from specialized, narrow applications to the theoretical and increasingly discussed realm of Artificial General Intelligence (AGI). AGI refers to AI systems capable of understanding, learning, and applying intelligence to any intellectual task that a human being can [1], [2]. Unlike Artificial Narrow Intelligence (ANI), which excels at specific tasks (e.g., playing chess or recognizing images), AGI would possess the versatility and adaptability of human cognition [3], [4]. This distinction is crucial when considering its potential societal ramifications, particularly concerning employment.