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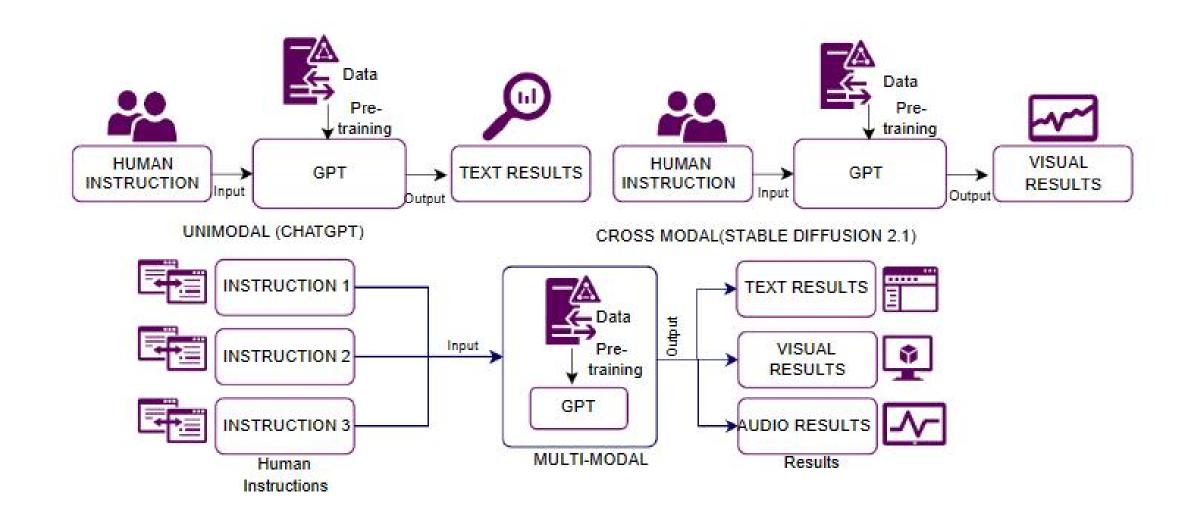
### Introduction

- Economic crises led to uncertain labor markets, widening disparities between developed and emerging economies.
- The emergence of innovative technologies brings about opportunities for job creation in fields that require human judgment, creativity, and communication skills.
- The widespread adoption of GPT (Generative Pretrained Transformer) models, such as ChatGPT, presents significant ethical challenges.

### World Economy to Return to Pre-Pandemic Output in 2021

Global GDP projections made in November 2019 and March 2021, Index: Q4 2019=100





#### 3 applications of generative Al in <u>financial services</u>



Generative AI chatbots and voice assistants can perform financial tasks and transactions directed by customers, such as checking account balances, making payments, scheduling transfers, and even giving financial advice.



**Financial analysis** 

Generative AI assistants can analyze financial data and information at scale through large language models to produce insights, recommended strategies, and compare against benchmarks.



Synthetic training data produced by generative AI can inform and improve financial models and ensure compliance with data privacy regulations.

## Project concerns

- How has GPT technology influenced the global economy sectors like in terms of productivity, efficiency, and innovation?
- What are the socio-economic impacts of GPT adoption on job roles, skill requirements, and workforce structure, across different countries and regions?
- What policies are being put in place to handle any issues with job displacement and skill mismatches, views on the incorporation of GPT into workforce practices?



### **AI Impact on Future Jobs**

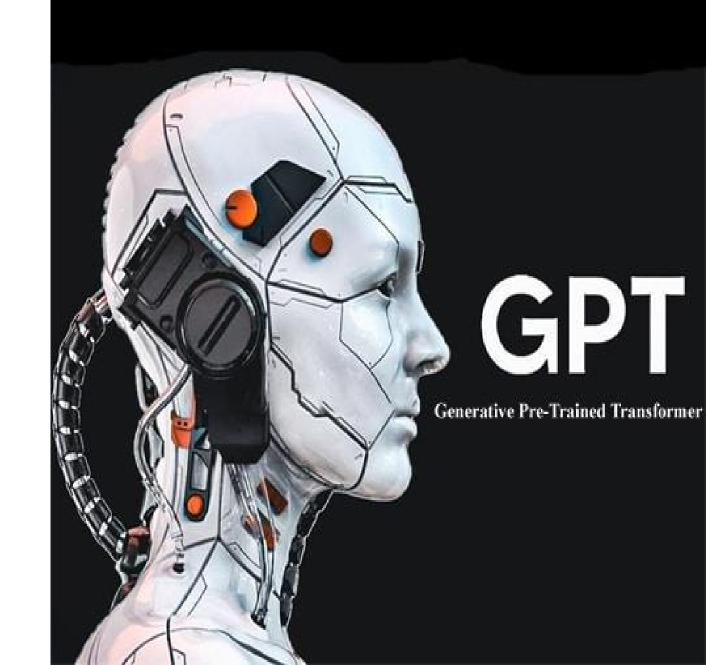
World Economic Bank estimates that by 2022, 42 percent of the core skills within roles will likely change

By 2030, more than 1 billion people, about one-third of the jobs worldwide, could be impacted by the technology revolution

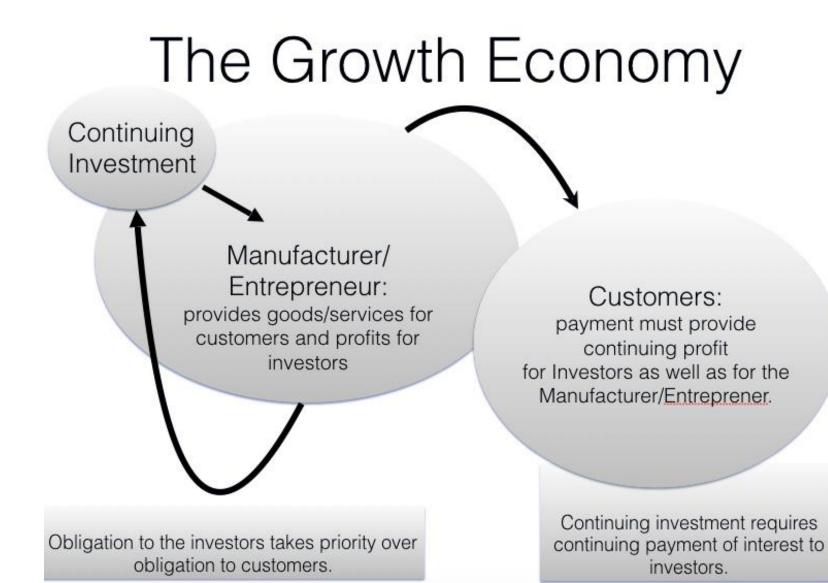
sources: World Economic Bank | World Economic Forum

### Methods

- Economic Modeling
- Case Studies
- Scenario Analysis
- Labor Market Analysis



### Findings



# Economic Implications of GPT

- Sentiment analysis
- Trading strategies
- Risk prediction and management

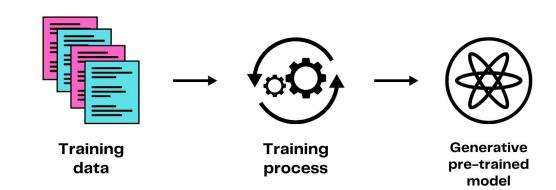
GPT-3, the next **Revolution in** Artificial Intelligence



### Findings cont.

 Businesses can benefit from faster decision-making, increased innovation, and gaining a competitive edge through the use of GPT's cognitive velocity. Individuals can also benefit from enhanced personal efficiency, continuous learning, and collaborative intelligence.

### **Pre-training**



# Innovation and Competitive Advantage of GPT

- enhance understanding of customer behavior and resulting in higher ROI
- Technology has automated routine tasks, freeing up human resources for more complex and creative endeavors. This shift has led to an increase in **productivity**, a key driver of economic growth.
- GPT fosters divergent thinking and exploration of new ideas.



## Challenges

- Demand significant computational re-sources to t and deploy
- Though GPTs are capable of producing precise predictions they can be challenging to interpret
- GPT in finance sector can be vulnerable to adversarial attac
- Requires large amounts of training data to achieve high accuracy



### Solutions

- Implement some cloud services to enhance fraud detection,
- better portfolio management decisions, and increased efficiency
- Effective and secure deployment of these models
- Skill development.



### Policies

 Policies such as progressive taxation on AI-benefiting firms and enforcing anti-trust policies, mitigates income inequality arising from AI advancements.
Investing in comprehensive reskilling and up skilling programs

