

Artificial Intelligence and Catholic Teaching Amidst the Current Pandemic

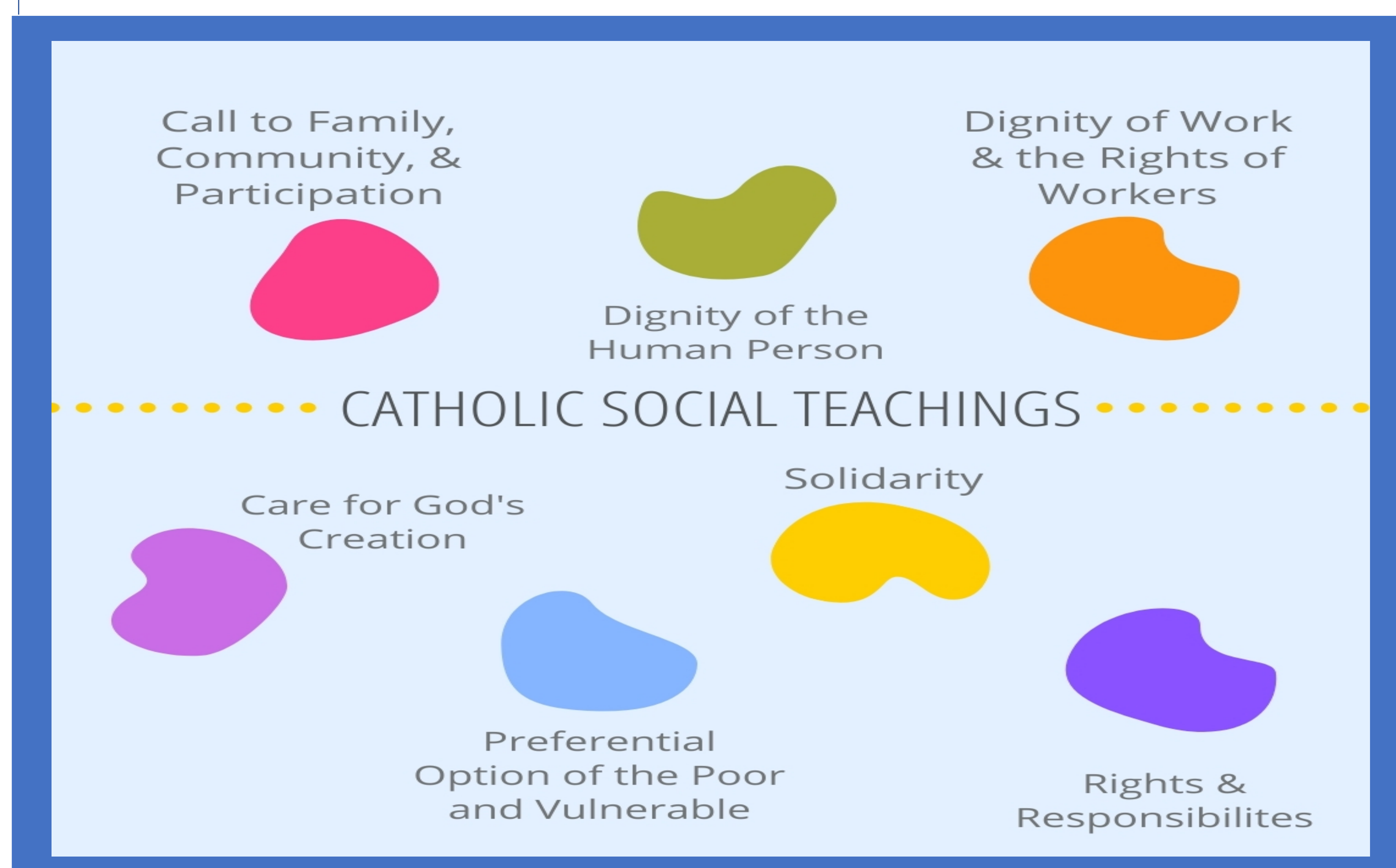
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Thesis

- ❑ Machine learning refers to the tools and methods for recognizing patterns in data, permitting scientists to articulate a model to forecast the result of patients.
- ❑ This research summarizes the application of artificial intelligence in the fight against COVID 19 (prediction, prevention, and management of COVID-19). It also discusses the pros and cons of artificial intelligence and shows how the catholic teaching of the church can offer new ways of thinking to tackle the negative effective of artificial intelligence especially when it comes to developing countries.
- ❑ AI has been extensively used to gain more precise detection results and reduce the burden on the healthcare system. It can decrease the decision time related with the traditional diagnostic methods. The development of AI techniques to recognize the risks of epidemic diseases is deemed a key factor in the development of the prediction, prevention and detection of future global health risks.

Application of Artificial Intelligence For the COVID-19 Pandemic

- Prediction of spread
- Preventive strategies and vaccine development
- Early case detection and tracking
- Treatment development
- Prognosis prediction



Potential Drawbacks of Artificial Intelligence

- ❑ Numerous notable ethical inquiries arise concerning the utilization of AI. Its algorithms can be challenging to comprehend and illustrate, as the model "learns" and creates its own algorithms on the basis of the data it exercises on.
- ❑ Furthermore, while it may originally appear like AI can be supportive in challenging implied physician biases regarding race and gender that might impact patient care, AI is only as valuable as the data it transcends from .
- ❑ Lastly, as with the development of technology overall, AI increases privacy and security fears.

Catholic Teaching to Solve the Challenges of AI amidst the Pandemic

- ❑ Catholic social teaching (CST), a division of moral theology, tackles modern issues within the political, economic, and cultural structures of society. The threefold foundation of CST encompasses the principles of human dignity, solidarity, and subsidiarity. In managerial, scientific, or research roles, the Church calls Catholics to utilize the social teachings to the wide-ranging and complex questions within all the levels of the healthcare system.
- ❑ In the context of this pandemic, these values and principles involve a duty to advance the application of safe and reliable AI in developing countries. By not working together to build stronger internet systems worldwide, Catholic teaching abandon solidarity with all countries and promise to the common good
- ❑ The protection against the current coronavirus and other potential serious infectious diseases establishes a good that necessitates a just distribution across the globe to protect the common good., and protect and promote the health and wellbeing of all people, including the vulnerable and children.

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