Project Design Phase-I Proposed Solution Template

Date	23 October 2023
Team ID	Team-592597
	Project - Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques
Maximum Marks	2 Marks

Proposed Solution Template:

 $\label{project} \mbox{Project team shall fill the following information in proposed solution template.}$

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The COVID-19 pandemic has caused a global health crisis, with millions of people infected and
		hundreds of thousands dead. Early detection of COVID-19 is essential for preventing the spread
		of the virus and providing timely treatment to
		patients. CNN is to develop a model that can accurately classify chest X-rays as COVID-19
		positive or negative. This model could be used to help clinicians diagnose COVID-19 more quickly
		and efficiently, and to prioritize patients for testing and treatment.
2.	Idea / Solution description	CNN model is trained and evaluated, it can be deployed to a production environment. This may involve integrating the model into a clinical
		decision support system or making it available as a web service. It is important to note that a CNN model for COVID-19 detection should not be used
		as a replacement for clinical judgment. The model should be used as a tool to assist clinicians in
		making diagnostic decisions. also it uses for travels once they tested they can travel safely and it helpful for children and doctors to treat the
		patients and our ultimate aim is to decreasing the spread of virus
3.	Novelty / Uniqueness	Develop a CNN model that can detect COVID- 19 from multiple types of medical images, such as chest X-rays, CT scans, and MRI scans. This would make the model more versatile and
		applicable to a wider range of patients. Develop a CNN model that can detect COVID-19 in early stages, before the onset of clinical symptoms. This
		would allow for earlier diagnosis and treatment, which could improve patient outcomes. By
		developing new and innovative models, researchers can help to improve the diagnosis and treatment of COVID-19, and ultimately save lives.

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4.	Social Impact / Customer Satisfaction	A COVID-19 detection project using CNNs has
		the potential to have a significant social impact.
		By improving the early detection and diagnosis of
		COVID-19, the project could help to reduce the
		spread of the virus, improve patient outcomes, and
		save lives. A COVID-19 detection project using
		CNNs has the potential to have a significant social
		impact. By improving the early detection and
		diagnosis of COVID-19, the project could help to
		reduce the spread of the virus, improve patient
		outcomes, and save lives. The project could also
		have a positive impact on customer satisfaction.
		By providing a more accurate and efficient way to
		diagnose COVID-19, the project could help to
		reduce patient anxiety and improve the overall quality of healthcare.
5.	Business Model (Revenue Model)	The model could be offered as a SaaS to
5.	Busiliess Model (Revenue Model)	hospitals, clinics, and other healthcare providers.
		Customers would pay a monthly or annual
		subscription fee to access the model. The model
		could be licensed to other companies, such as
		medical device manufacturers or pharmaceutical
		companies. These companies would then integrate
		the model into their own products and services.
		The best business model for a COVID-19
		detection project will depend on a number of
		factors, such as the target market, the cost of
		developing and maintaining the model such as The
		price of the product or service should be set at a
		level that is affordable for the target market and
		that generates a sufficient profit margin for the
		company.
6.	Scalability of the Solution	A scalable COVID-19 detection project using
		CNNs has the potential to have a significant
		impact on the global fight against the pandemic.
		By improving the early detection and diagnosis of
		COVID-19, the system could help to reduce the spread of the virus, improve patient outcomes, and
		save lives.
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