
Leveraging AI To Diagnose Illnesses

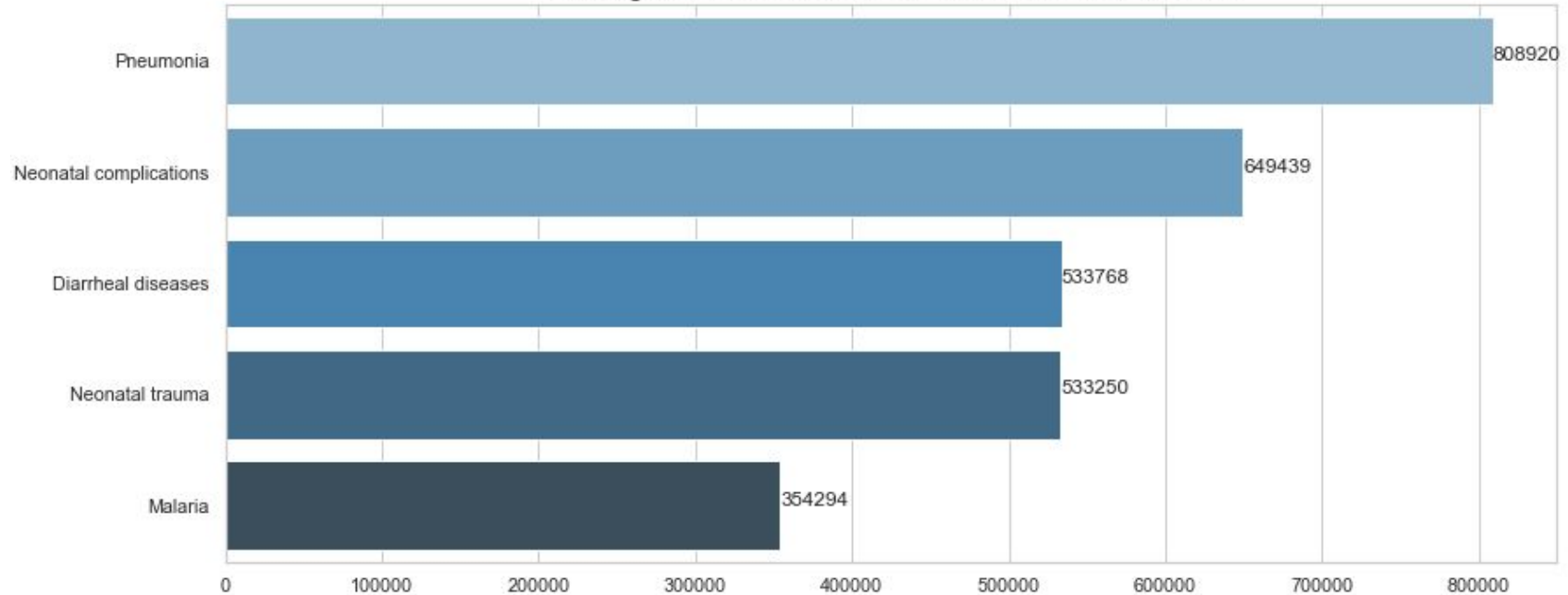
Samantha Baltodano

Agenda

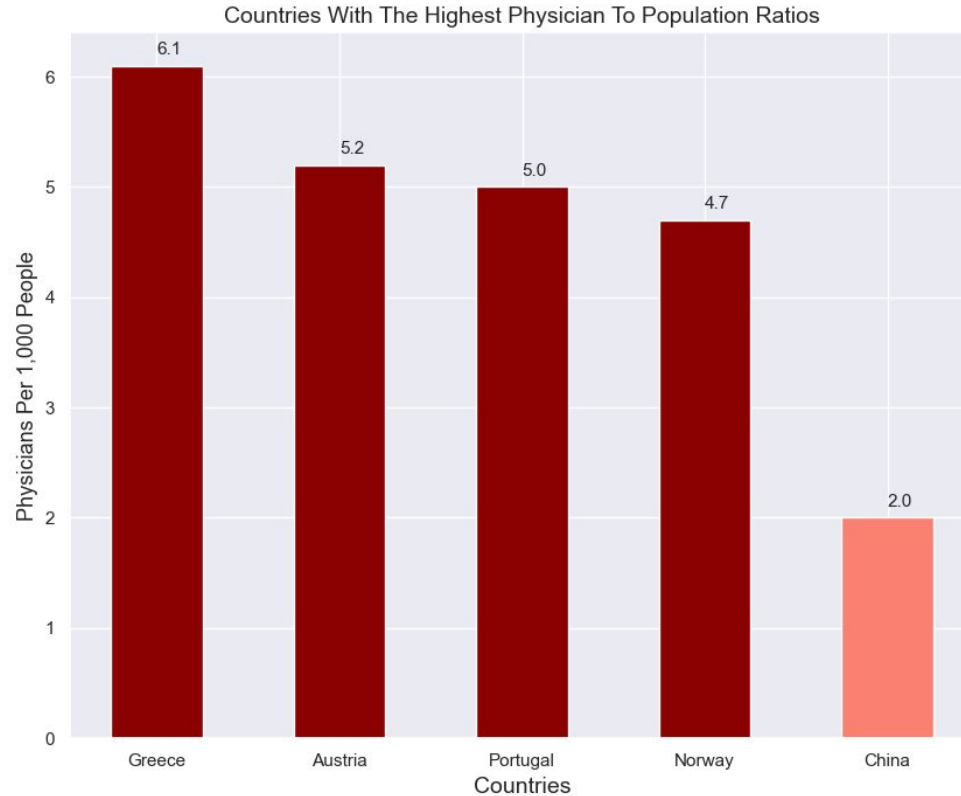
1. Deaths from pneumonia
2. Physician burnout and doctor shortages
3. AI In Healthcare
4. Actionables

Pneumonia Accounts For 17% Of All Children Deaths In China

Leading Causes of Death In Children Under 5 Worldwide



Physicians Are Overworked, Fatigued, and Burnt Out



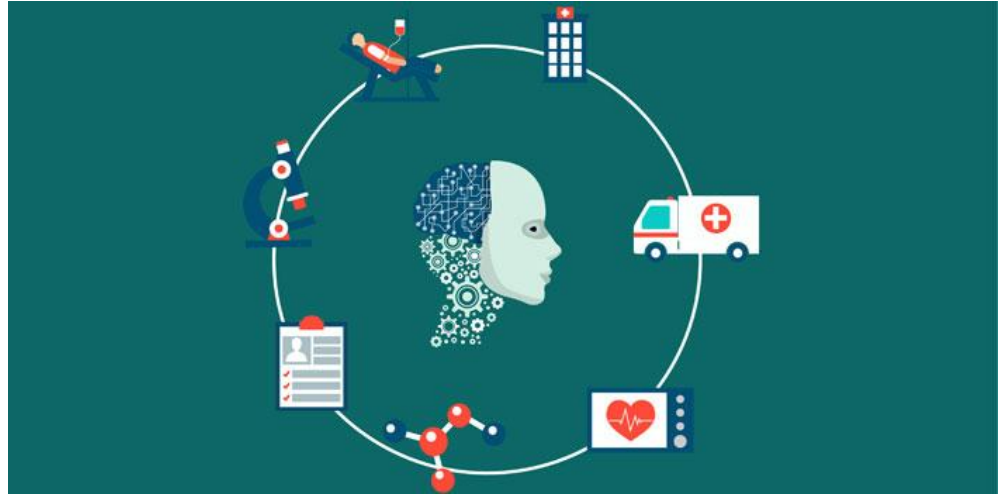
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How Can We Address These Problems?

AI Is Just As Accurate As Humans In Diagnosing Illnesses

➤ Benefits:

- Early diagnosis
- Increased efficiency
- Reduced costs



Next Steps

- Utilize machine learning to detect pneumonia in children
- Randomized controlled trials to track AI's impact on patient outcomes



Resources

1. Posted by Slava Vaniukov on February 25, 2020 at 9:30am View Blog. "How AI in Healthcare Is Changing the Industry." *Data Science Central*, 25 Feb. 2020, www.datasciencecentral.com/profiles/blogs/how-ai-in-healthcare-is-changing-the-industry.
2. "Ai Just as Good at Diagnosing Illness as Humans." *Medical News Today*, MediLexicon International, 2019, www.medicalnewstoday.com/articles/326460.
3. Guan, Xuhua, et al. "Pneumonia Incidence and Mortality in Mainland China: Systematic Review of Chinese and English Literature, 1985-2008." *PloS One*, Public Library of Science, 23 July 2010, www.ncbi.nlm.nih.gov/pmc/articles/PMC2909231/.
4. "Artificial Intelligence in Medical Diagnosis: Healthcare Insights." *Aidoc*, 7 Dec. 2020, www.aidoc.com/blog/artificial-intelligence-medical-diagnosis/.
5. Geller, Mara. "Physician Wellness - Finding a Solution for Physician Burnout." *Aidoc*, 8 Mar. 2021, www.aidoc.com/blog/physician-burnout/.
6. Schwartz, Emma. "The Global Health Care Worker SHORTAGE: 10 Numbers to Note." *Project HOPE*, 14 May 2021, www.projecthope.org/the-global-health-worker-shortage-10-numbers-to-note/02/2020/.
7. Klöppel S;Stonnington CM;Barnes J;Chen F;Chu C;Good CD;Mader I;Mitchell LA;Patel AC;Roberts CC;Fox NC;Jack CR;Ashburner J;Frackowiak RS; "Accuracy of Dementia Diagnosis: A Direct Comparison between Radiologists and a Computerized Method." *Brain : a Journal of Neurology*, U.S. National Library of Medicine, pubmed.ncbi.nlm.nih.gov/18835868/.

Thank you

Check out the full project on
[Github!](#)

