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English summary

This article talk about the recent event of COVID-19, an infection, and a Canadian AI startup, called DarwinAI, close to develop new tools capable of detecting her with X-rays. DarwinAI normally explain how deep-learning works, how to improve it and how to fix it. However they decided to see if AI can help to detect cases of COVID-19 by developing COVID-Net, an open-source neural network that scans X-rays. AI always excelled in image analysis of any medical conditions so COVID-Net was a natural product of the existing AI work. They started to train COVID-Net with 5 000 X-rays before to make it open source and let scientist and people around the world to give their data to improve it. Now the dataset is around 17 000 X-rays, people keep sending improvements recommendation and building on top of it. Moreover, a lite version has been released to run off the AI on a laptop to make it accessible for country with a lack of computing resources or poor connectivity. However COVID-Net is not ready yet for production, there still not have a user interface to make it reachable for everyone. The AI is highly accurate with a 95% chance of detecting correctly if you might be infected or not. Moreover, the startup started to work on new software, called COVID-RiskNet, capable to separate person who can self-isolate and those in need of medical care. The article ends by telling us that DarwinAI can teach us what it learns by himself by understanding why the AI is doing what's doing and this might improve radiologists diagnostic.