



tinyML 亚洲技术论坛 2020

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Online Virtual Event

TinyML 如何帮助发展中国家

Plenary: "How TinyML Could Help Developing Countries"

Pete WARDEN

Google

摘要：

嵌入式设备上的机器学习是一个新兴领域。这项技术在发达国家方兴未艾，但是它的一些特性可能更适合于发展中国家。与基于云端的机器学习相比，嵌入设备机器学习所需要的硬件，软件价格相对低廉。无论是培训学生，推进研究和构建产品所需的成本更少，并且由于设备不需要依赖网络甚至是主电源连接，它们可以部署在任何地方。**Pete Warden** 是 Google TensorFlow Micro 开源项目的技术负责人，之前曾在西非应用基于设备上的深度学习帮助诸如 **Plant Village** 之类的项目。在本次演讲中，他将介绍边缘计算在西方以外的世界所带来的可能性，并将向听众寻求嵌入设备机器学习如何能在他们各自领域中的用例。

简介：

Pete Warden 是 Google TensorFlow 移动和嵌入式团队的技术主管，在加入谷歌之前 Pete 是 Jetpac 的首席技术官（于 2014 年收购）。

Abstract

Machine learning on embedded hardware is a new field that's only beginning to be used in the developed world, but it has some characteristics that may make it particularly appropriate for developing countries. The hardware and software required to train students, advance research, and build products is much cheaper than the equivalents for Cloud ML, and since the devices don't need reliable network or even mains power connections, they can be deployed almost anywhere. Pete Warden is the Technical Lead of the TensorFlow Micro open source project from Google, and has previously helped projects like [Plant Village](#) use on-device deep learning in West Africa. In this talk he'll introduce some of the possibilities that edge compute opens up for the world outside the West, and will be looking to learn from the audience what problems in their domains it might be applicable to.

Biography

Pete Warden is the technical lead of the TensorFlow mobile and embedded team at Google, and was previously CTO of Jetpac (acquired in 2014).