TED演讲者: Nilay Kulkarni | 尼莱庫卡尼

演讲标题: A life-saving invention that prevents human stampedes | 预防在人群中被踩死的救命发明

内容概要: Every three years, more than 30 million Hindu worshippers gather for the Kumbh Mela in India, the world.s largest religious gathering, in order to wash away their sins. With massive crowds descending on small cities and towns, stampedes inevitably happen, and in 2003, 39 people were killed during the festival. In 2014, then 15-year-old Nilay Kulkarni decided to put his skills as a self-taught programmer to use by building a tech solution to help prevent stampedes. Learn more about his invention -- and how it helped the 2015 Nashik Kumbh Mela have zero stampedes and casualties.

每三年,世界上最大宗教集会之一的印度大壶节,都会有三千万印度教参拜者聚集,希望将其罪恶洗去。大 量的群众突然涌入小城市和小镇,无可避免会有人被踩死,在 2003 年,有 39 人在节庆中丧命。在 2014 年,15岁的尼莱庫卡尼决定要把他身为自学程式设计师的技能发挥出来,建立一个技术解决方案,来协助预 防人被踩死。来进一步了解他的发明,以及它如何协助 2015 年纳西克大壶节达成完全无死伤的目标。

## www.XiYuSoft.com

I was only nine when my grandfather first described to me the **horrors** he **witnessed** six years earlier when human stampedes killed 39 people in our hometown of Nashik, India.

It was during the 2003 Nashik Kumbh Mela, one of the world's largest **religious gatherings**.

Every 12 years, over 30 million Hindu worshippers descend 每 12 年,就有超过 三千万印度教参拜者 突然造访 **upon** our city -- which is built only for 1.5 million people -and stay for 45 days.

The main purpose is to wash away all their sins by bathing in主要的目的,是要洗净他们的罪恶, 方式是在哥达瓦 the river Godavari.

And stampedes may easily happen because a high-density 踩死人的事件很容易发生, 因为高密度的人群以低 crowd moves at a slow pace.

Apart from Nashik, this event happens in three other places 除了纳西克,印度还有 其他三个地方也有这项节庆, in India, with varying frequency, and between 2001 and 2014, over 2,400 lives have been lost in stampedes at these events.

锡育软件 我只有九岁的时候, 祖母第一次向我描述了 她在六 年前目击的恐怖情景, 蜂拥的人群造成了 39 人被 踩死, 地点在我们的家乡,印度的纳西克。[00:12]

那是 2003 年纳西克大壶节期间, 世界上最大的宗 教集会之一。[00:24]

我们的城市——城市设计的容量为一百五十万人 — 他们会停留 45 天。[00:31]

里河中洗澡。[00:41]

速度在移动。[00:47]

举办频率不同,在 2001年到 2014年间,在这些活 动中就有 超过 2400 人被踩死。[00:53]

horrors: n.惊骇;惨状;极端厌恶;令人恐怖的事物 witnessed: n.证人;目击者;证据/vt.目击;证明;为...作证/vi.作证人 stampedes: n.惊跑;人群的蜂拥;军队溃败/vi.蜂拥;逃窜/vt.使...惊逃;抢占 religious: adj.宗教的;虔诚的;严谨的;修道 的/n.修道士;尼姑 gatherings: n.聚会(gathering的复数) Hindu: adj.印度的;印度教的/n.印度人;印度教教徒 worshippers: n.崇拜者;礼拜者;爱慕者 descend upon: vt.突然到达);袭击(突然降临 sins: n.罪恶 bathing: n.沐浴;游泳;洗 海水澡/v.洗浴(bath的现在进行式) high-density: adj.高密度的 Apart from: 除...之外;且不说;并且 varying: adj.不同的;变 化的/v.变化,改变(vary的现在分词)

What **saddened** me the most is seeing people around me resigning to the city's fate in witnessing the seemingly inevitable deaths of dozens at every Kumbh Mela.

I sought to change this, and I thought, why can't I try to find 我想要改变这状况, 我心想,我为什么不找个解决方 a solution to this?

Because I knew it is wrong.

Having learned **coding** at an early age and being a maker, I considered the wild idea --

[Makers always find a way] I considered the wild idea of building a system that would help regulate the flow of people and use it in the next Kumbh Mela in 2015, to have fewer stampedes and, hopefully, fewer deaths.

It seemed like a mission impossible, a dream too big, especially for a 15-year-old, yet that dream came true in 2015, when not only did we succeed in reducing the stampedes and their **intensity**, but we marked 2015 as the first Nashik Kumbh Mela to have zero stampedes.

最让我感伤的是,看到我身边的人 听任这个城市的 命运, 在每次大壶节都要目击 似乎无法避免的 数 十起死亡。[01:09]

案? [01:21]

因为我知道这是错的。[01:25]

我早期曾经学过程式,加上身为制造者,我有个很 狂妄的点子—[01:27]

(笑声) [01:32]

〔制造者总会找到出路〕 我的狂野点子就是要建 立一个系统, 可以协助控管人的流量, 并用在下一 次的 2015 年大壶节中, 减少蜂涌的情况, 希望也能 减少死亡人数。[01:33]

这似乎是个不可能的任务,这个梦想太大了,特别 是对一个 15 岁男孩而言, 然而,这个梦想在 2015 年实现了, 我们不仅成功减少了 蜂涌的情况以及人 潮的密度, 我们还让 2015 年成为 第一个没有人被 踩死的 纳西克大壶节。[01:47]

saddened: v.使...悲伤;使...黯然(sadden的过去分词)/adj.悲伤的;惨然的 resigning: 辞职/使屈从 witnessing: v.目击 (witness的ing形式) coding: n.译码/v.把...编码(code的ing形式) succeed in: 成功;在...方面成功;顺利完成 intensity: n.强 度; 强烈; [电子]亮度; 紧张

(Applause) It was the first time in recorded history that this event passed without any casualties. How did we do it?

(掌声) 那是历史记录中第一次,这个活动到结束 都没有伤亡。[02:11] 我们怎么做到的? [02:22]

It all started when I joined an **innovation** workshop by MIT 一切始于我加入一个创新研讨会, 是麻省理工学院 媒体实验室 在 2014 年办的, 叫做大壶马拉松 Media Lab in 2014 called the Kumbhathon that aimed at (Kumbhathon)。 目标是要解决在大壶节这么 大 solving challenges faced at the grand scale of Kumbh Mela. 规模的节庆所面临的难题。[02:24] Now, we figured out to solve the stampede problem, we 我们想出了要如何 解决踩死人的问题, 我们只想知 wanted to know only three things: the number of people, the 道三样资讯: 人数、地点, 以及每分钟的人流量。 [02:37] location, and the rate of the flow of people per minute. So we started to look for technologies that would help us get 我们就开始寻找有什么技术 能协助我们取得这三 these three things. 项资讯。[02:51] 我们能不能分发无线电频率的 凭证来识别每个 Can we distribute radio-frequency tokens to identify 人? [02:55] We figured out that it would be too expensive and 我们觉得这样成本太高且不实际, 很难去分发三千 impractical to distribute 30 million tags. 万个吊牌。[03:00] 我们能不能用闭路电视摄影机 搭配影像处理技 Can you use CCTV cameras with image-processing 术? [03:06] techniques? 一样,用在这么大规模也太贵了,还有个缺点就是无 Again, too expensive for that scale, along with the disadvantages of being non-portable and being completely 法带着走,在下雨时就完全没用了,而在大壶节常 useless in the case of rain, which is a common thing to 常会下雨。[03:09] happen in Kumbh Mela. casualties: n.伤亡;人员伤亡(casualty的复数) innovation: n.创新,革新;新方法 radio-frequency: n.射频;无线电频率 tokens: n.代币(token的复数);符号 impractical: adj.不切实际的,不现实的;不能实行的 tags: n.标签;(机动车)牌照;称呼(tag 的复数)/v.附加;加标签于;给...起绰号(tag的单三形式) disadvantages: n.劣势;不利条件;损害(disadvantage的复数)/v.使处于 不利地位;使受损(disadvantage的三单形式) Can we use cell phone tower data? 我们能用手机信号塔的资料吗? [03:20] It sounds like the perfect solution, but the funny part is, most 听起来是完美的解决方案, 但好笑的部分是, 大部 of the people do not carry cell phones in events like Kumbh 分的人不会带手机 到大壶节这类活动中。[03:23] Also, the data wouldn't have been **granular** enough for us. 此外,资料对我们来说也不够精细。[03:32] So we wanted something that was real-time, low-cost, 所以我们想要的必须要即时、 低成本、耐用、防 水, 且要很容易取得资料来做处理。[03:36] sturdy and waterproof, and it was easy to get the data for processing. So we built Ashioto, meaning "footstep" in Japanese, as it 所以我们建造了 Ashioto, 在日文的意思是「脚 consists of a portable mat which has pressure sensors which 步」, 它是由可携式的垫子所构成, 垫子有压力感 can count the number of people walking on it, and sends the 测器, 能够计算走在上面的人数, 透过网路把这资 data over the internet to the advanced data analysis software 料传输 到我们建造的进阶资料分析软体。[03:45] The possible errors, like **overcounting** or double-stepping, 我们设计了干预方式,来克服过高估计或反覆踩踏 这类的可能错误。[04:02] were overcome using design **interventions**. The **optimum** breadth of the mat was determined to be 18 我们决定最理想的 垫子宽度是 18 英吋, 这是在我 inches, after we tested many different versions and observed 们测试了许多不同版本 并观察人的平均步距之后 决定的。[04:08] the average **stride** length of a person. granular: adj.颗粒的;粒状的 real-time: adj.实时的;接到指示立即执行的 low-cost: adj.廉价的;价格便宜的 sturdy: adj.坚 定的;强健的;健全的/n.羊晕倒病/ **waterproof:** adj.防水的,不透水的/vt.使防水/n.防水材料 **consists:** v.由...构成;由...组成 (consist的三单形式) sensors: n.[自]传感器,感应器;感测器(sensor的复数) overcounting: vt.在数量上超过;对...做过高的估 计 interventions: n.[法]干预,干涉;处置(intervention的复数) optimum: adj.最适宜的/n.最佳效果;最适宜条件 observed: adj.观察的;观测的/v.观察;遵守;注意到(observe的过去分词形式) stride: n.大步;步幅;进展/vt.跨过;大踏步走过;跨坐在.../vi.跨; Otherwise, people might step over the sensor. 不然,人们可能会踩超过感测器。[04:17] We started with a proof of concept built in three days, made 我们一开始先要证明 这个概念,在三天内 用厚纸板 和铝箔纸 打造出测试用的样品。[04:20] out of cardboard and aluminum foil. (Laughter) It worked, **for real**. (笑声) 它有用,是真的。[04:26] We built another one with aluminum composite panels and 我们又用铝复合板以及压电板 再打造了一个样品, 压电板在受到压力时 会产生出小的电脉冲。 piezoelectric plates, which are plates that generate a small pulse of electricity under pressure. [04:29] We tested this at 30 different pilots in public, in crowded 我们在三十个地点测试了 这个设计,包括公开场 所、 拥挤的餐厅、购物中心、庙宇等等, 看看人们 restaurants, in malls, in temples, etc., to see how people 的反应如何。[04:38] And people let us run these pilots because they were excited 大家都让我们做这些测试, 因为他们很兴奋能够看 到 当地有人要为城市解决问题。[04:48] to see localites work on problems for the city. 我那时十五岁,我的 团队成员都二十岁出头。 I was 15 and my team members were in their early 20s. When the sensors were colored, people would get scared and 当感测器加上了颜色, 人们会紧张,问我们像这样的 would ask us questions like, "Will I get **electrocuted** if I step 问题: 「如果我踩上去会被电击吗? 」 [05:01]

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suffer from: 忍受,遭受;患病;受之苦 adaptable: adj.适合的;能适应的;可修改的 concerts: n.音乐会;演唱会;(音)协奏	suffer from: 忍受,遭受;患病;受之苦 adaptable: adj.适合的;能适应的	];可修改的 concerts: n.音乐会;演唱会;(音)协奏曲

(concert的复数);合奏(曲) **sporting:** adj.运动的;冒险性的;公正的;喜好运动的/v.娱乐;玩弄(sport的ing形式) **Maha:** n.紫面叶猴 **Hajj:** n.麦加朝圣;哈吉 **Mecca:** n.麦加(沙特阿拉伯一座城市);众人渴望去的地方 **Vatican:** n.梵蒂冈;罗马教廷

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