tinyML for Good
Tiny technology for the world's biggest challenges

TinyML for AI Robotics Applications in Education

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Problem Statement

• With the rapid evolution of technology and the requirements of SDG #4 (Quality Education), STEAM educators must equip themselves with modern skills and tools sets.

• STEAM educators aren't often trained on how to utilize machine learning and tinyML in their lessons.
Tools such as **Seeed Studio's Codecraft** graphical block-based programming platform on Wio Terminal hardware as a kickstart and later could progress with **text-based coding** for more integration use cases.

*Toggle between blocks and C code allows scalability*
Enables educators to easily create TinyML application projects on Wio Terminal hardware.
Voice Activated Robo Car

3 different conditions:
"go" > 0.8, the command is '1'
"stop" > 0.8, the command is '2'
"background", the command is '0'

command '1' (go) - move forward
command '2' (stop) - stop
command '0' (background) - stop
Demo
Going Further

EDGE IMPULSE

ST B-L475E-IOT01A
NVIDIA Jetson Nano

https://docs.edgeimpulse.com/docs/fully-supported-development-boards
Call to Action!

https://github.com/VincentK16/tinymlresources