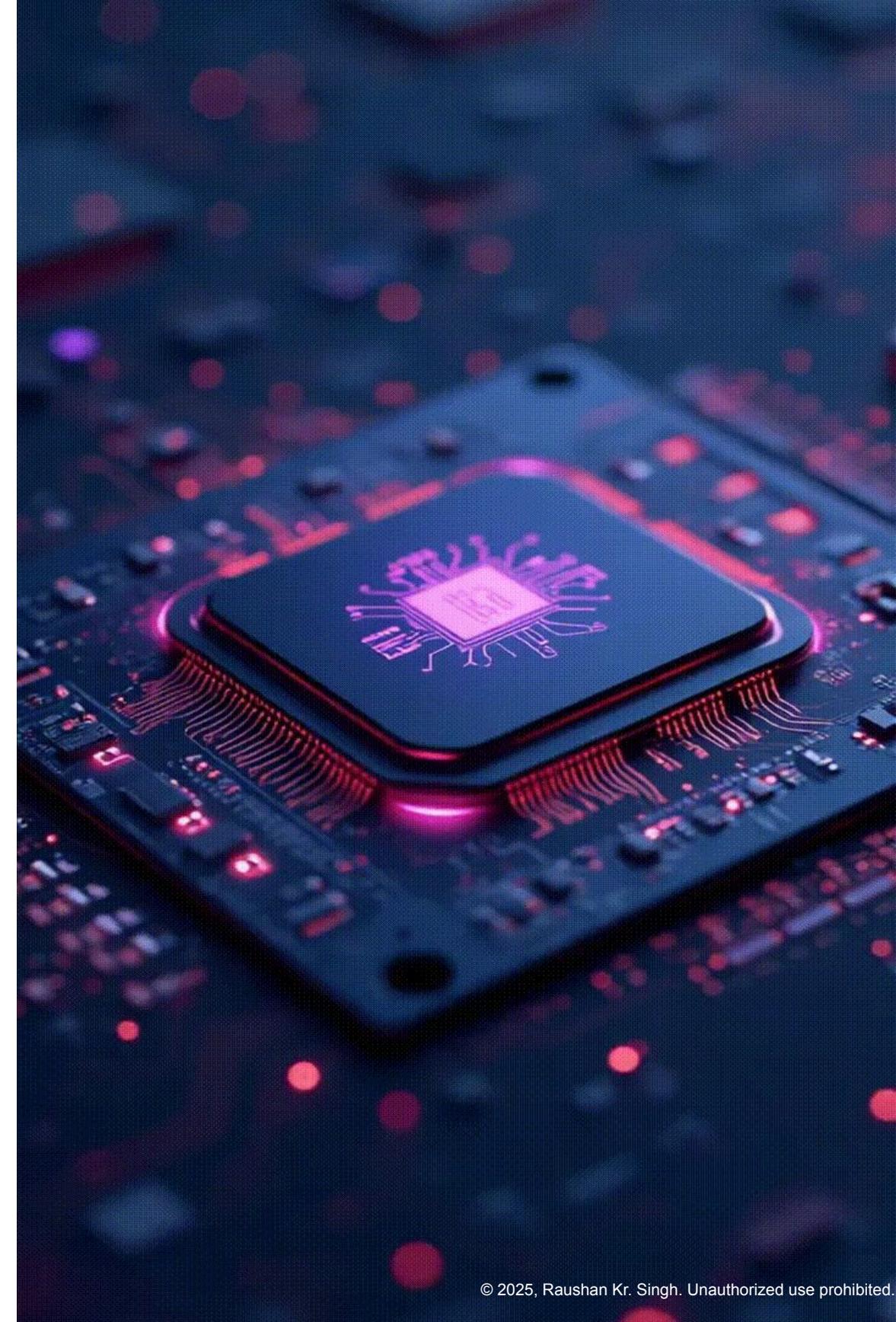


TinyML : Edge AI Bootcamp: Building Intelligent IoT with TinyML- **PART 1**

Raushan Kr. Singh

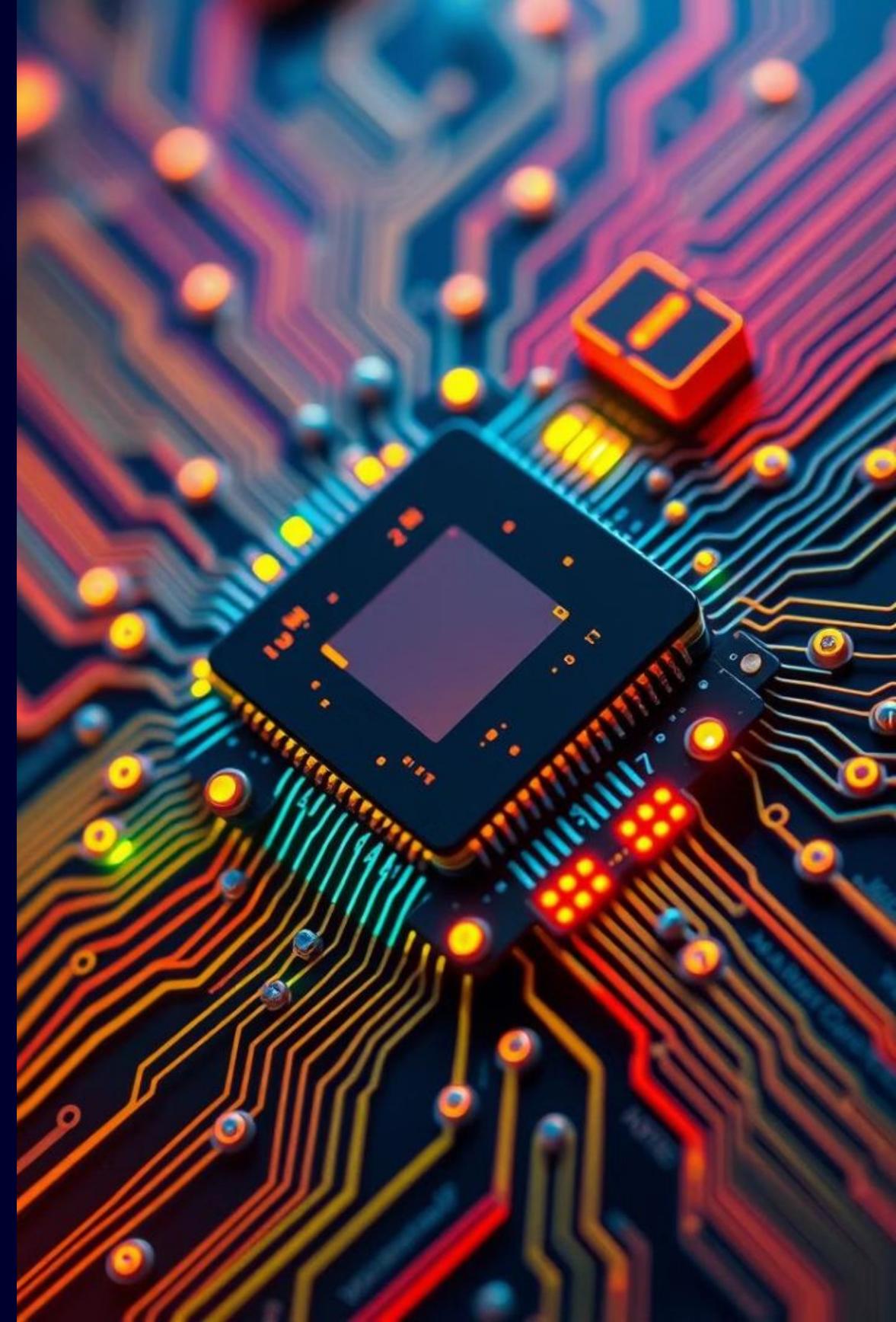
CEO, Fulelectronix Technologies

IIT Ropar



Edge Impulse: Powering TinyML at the Edge

Build, train, and deploy machine learning
models directly on edge devices





Edge Impulse: The Edge AI Platform



End-to-End Development

From data collection to model deployment, Edge Impulse offers a complete development pipeline.



Device Compatibility

It targets microcontrollers, sensors, and other edge devices, with over 40 sensor integrations.



Real-World Applications

The platform powers diverse applications like predictive maintenance and human sensing.

Why Use Edge Impulse?

Edge Impulse simplifies complex machine learning development, making it accessible to a wider range of developers.

Simplified ML Development

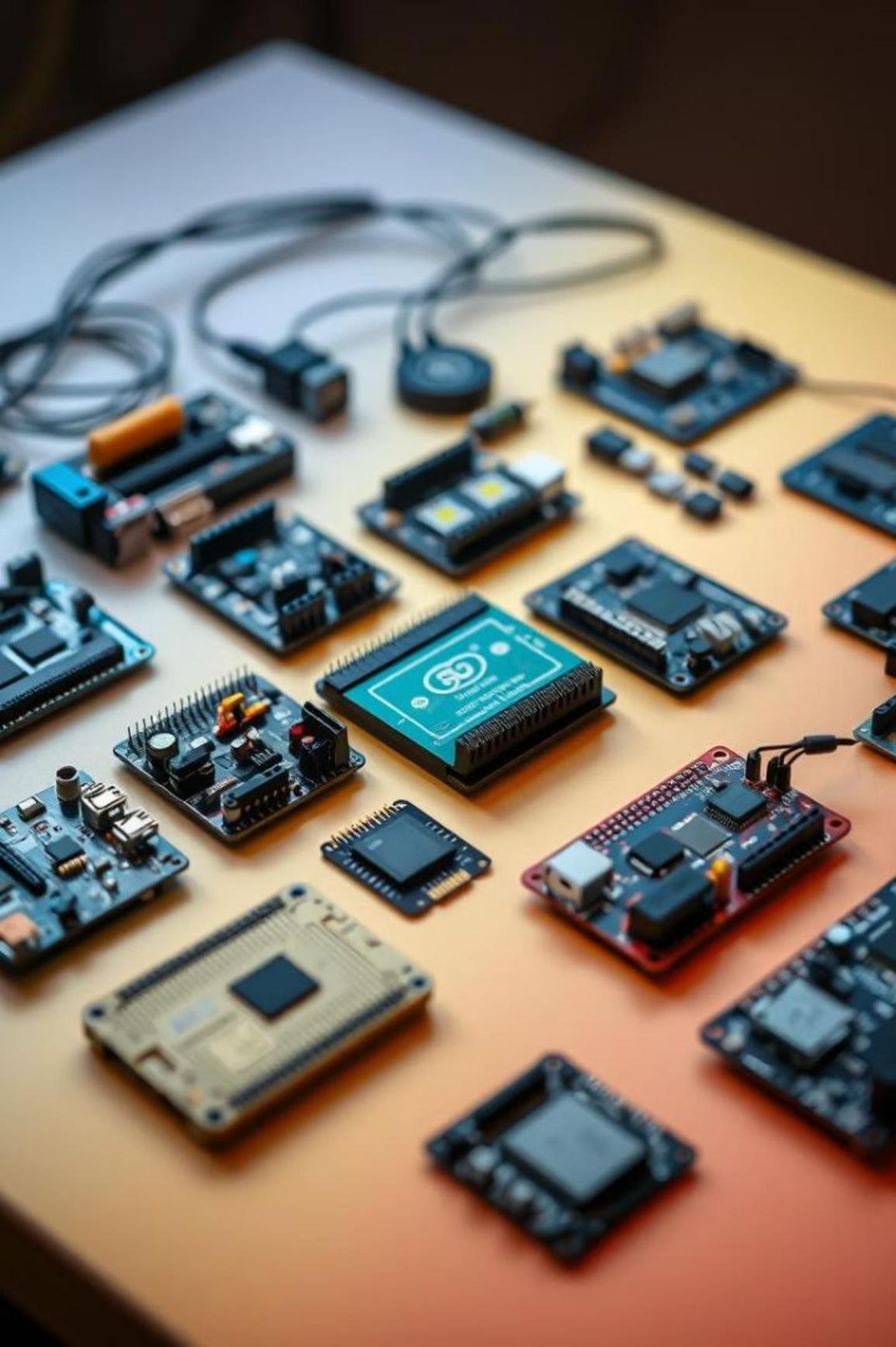
Access powerful no-code/low-code ML tools.

- Visual interface for model building.
- Pre-built machine learning blocks.

Flexible Code Generation

Generate optimized code in Python, C++, and Javascript.

- Supports various programming languages.
- Seamless integration into existing projects.



Edge Impulse Benefits

Edge Impulse offers a range of benefits for efficient and effective edge ML deployment.



Real-time Data

Collect data directly from devices in real time.



Broad Compatibility

Works with Arduino, ESP32, Raspberry Pi, and more.



Optimized Performance

Models are lightweight, fast, and function offline.

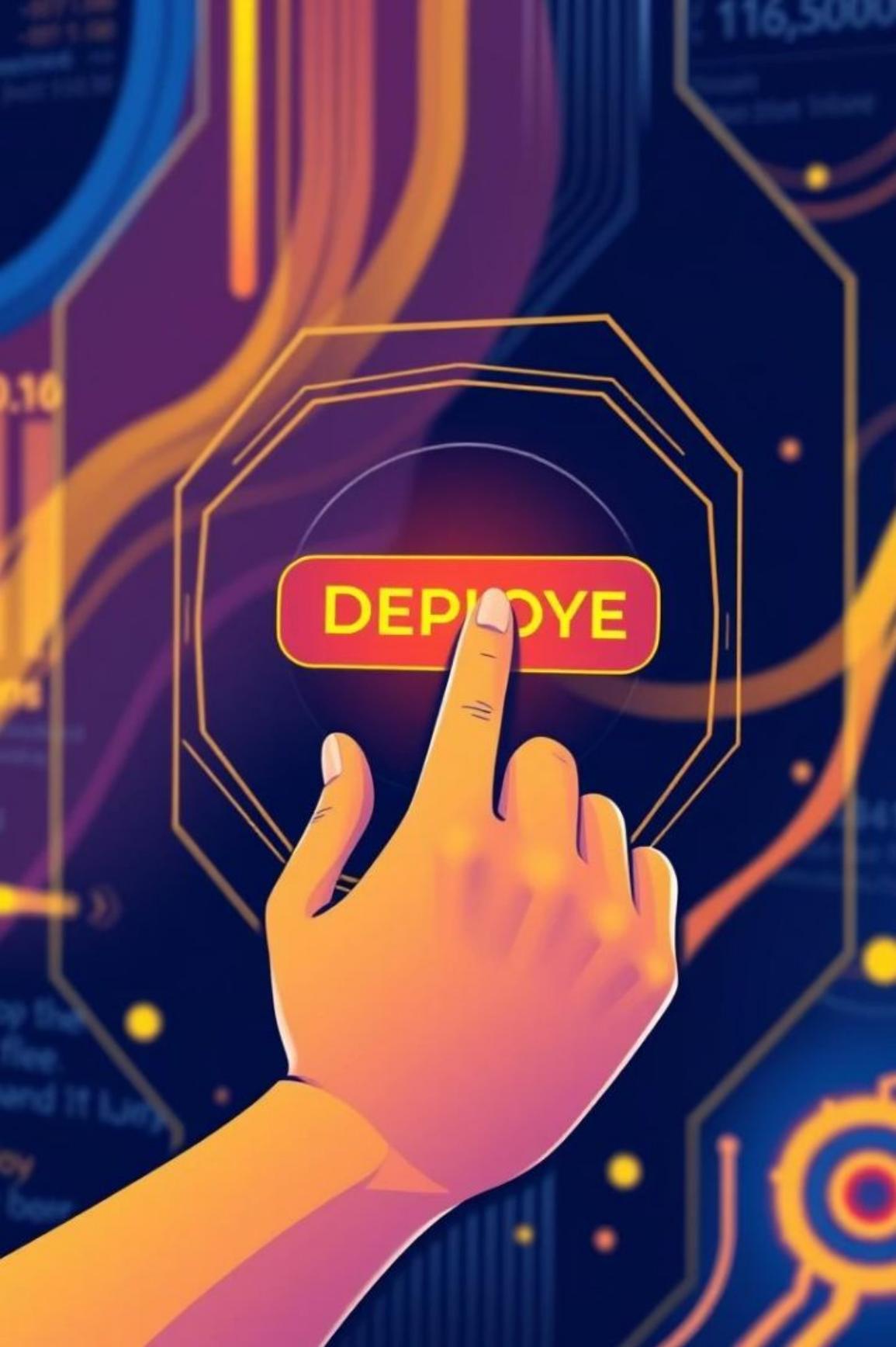


Reduced Model Size

Achieve up to an 80% reduction in model size.

Edge Impulse: Streamlined ML Development

Edge Impulse offers specialized tools for each stage of the machine learning development process.

An illustration of a hand with a pinkish-orange glow, pointing at a glowing red button labeled 'DEPLOY' in yellow capital letters. The button is set within a series of concentric, glowing orange and yellow octagonal frames. The background is a dark blue space filled with glowing orange and yellow lines, suggesting a complex digital or neural network structure. Faint numbers like '116,5000' and '0.10' are visible in the background.

DEPLOY

Data Collection

Utilize the integrated data forwarder tool.

Feature Extraction

Access various signal processing blocks.

Model Training

Leverage AutoML, TensorFlow Lite, and CoreML.

Deployment

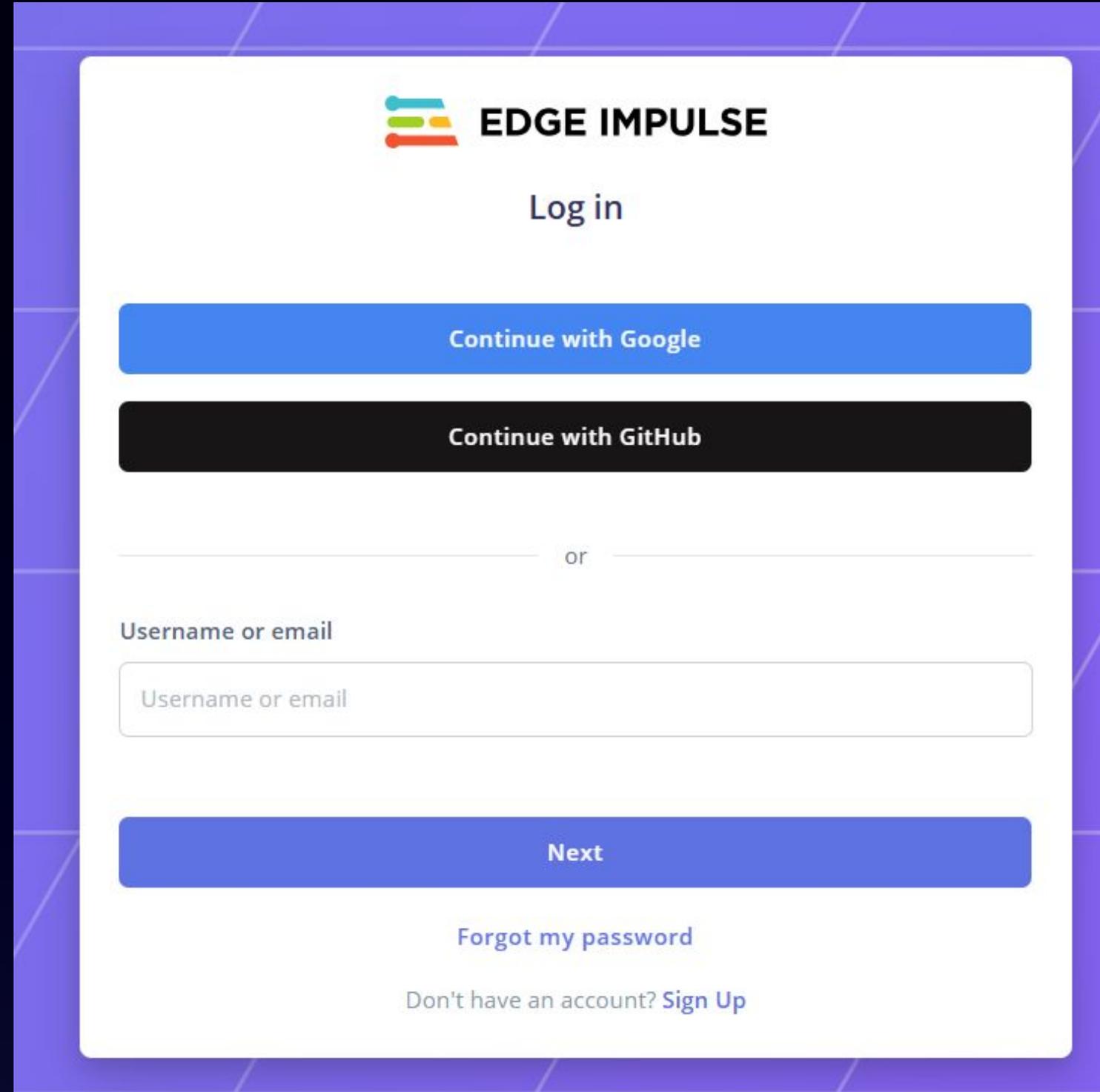
One-click deployment to various target devices.



EDGE IMPULSE

Simulation

Step 1: Create account on Edge Impulse Studio & Login



The image shows the login page for Edge Impulse Studio. At the top, there is the Edge Impulse logo, which consists of three horizontal bars in blue, green, and orange, followed by the text "EDGE IMPULSE". Below the logo is the heading "Log in". There are two large buttons: a blue one labeled "Continue with Google" and a black one labeled "Continue with GitHub". Below these buttons is a horizontal line with the word "or" in the center. Underneath the line is a text input field labeled "Username or email" with the placeholder text "Username or email". Below the input field is a blue button labeled "Next". At the bottom of the page, there is a link "Forgot my password" and a link "Don't have an account? Sign Up".

 **EDGE IMPULSE**

Log in

Continue with Google

Continue with GitHub

or

Username or email

Username or email

Next

[Forgot my password](#)

Don't have an account? [Sign Up](#)

Step 2: Create a new project

The screenshot shows a user interface for managing projects. At the top, there are two tabs: 'Projects' (selected) and 'Custom ML blocks'. On the left side, there is a user profile for 'Raushan' with a blue circular avatar containing the letter 'R'. Below the name, it says 'DEVELOPER' and 'Enable MFA' with a close icon. A notification states: 'Multi-factor authentication is now available for all users. Set up now.' Below this is an 'Organizations' section with a 'Try Enterprise free' button.

The main area is titled 'Projects' and contains a list of projects. At the top right of this list is a 'Sort' dropdown and a '+ Create new project' button, which is highlighted with a red rectangular box. Below the list header, there is a message: '0 of 3 private projects remaining. Want access to more? Try Enterprise free.' The list of projects includes:

- Raushan / loBT
- Raushan / Tinyml
- Raushan / Raushan_loBT_Glove_Voice
- Raushan / loBT Glove GESTURE
- Raushan / IoT_CLASS
- Raushan / iot_class_1
- Raushan / defender_glove_new (PUBLIC)

Step 3: Enter Project Name and Select Setting

Create a new project ×

Enter the name for your new project:

Choose your project type:

- Personal**
60 min job limit, 4GB or 4 hours of data, limited collaboration.
- Enterprise**
No job or data size limits, higher performance, custom blocks.

Choose your project setting:

- Public**
Anyone on the internet can view and clone this project under the [3-Clause BSD license](#). Only invited users will be able to edit.
- Private (0 of 3 remaining)**
Only invited users can edit and view your project.
To request additional projects, contact sales

 Want full-feature access and unlimited projects? Try Enterprise free.

[Create new project](#)

Step 4: Enter Project Name and Select Setting

Create a new project ✕

Enter the name for your new project:

Choose your project type:

Personal
60 min job limit, 4GB or 4 hours of data, limited collaboration.

Enterprise
No job or data size limits, higher performance, custom blocks.

Choose your project setting:

Public
Anyone on the internet can view and clone this project under the [3-Clause BSD license](#). Only invited users will be able to edit.

Private (0 of 3 remaining)
Only invited users can edit and view your project.
To request additional projects, [contact sales](#)

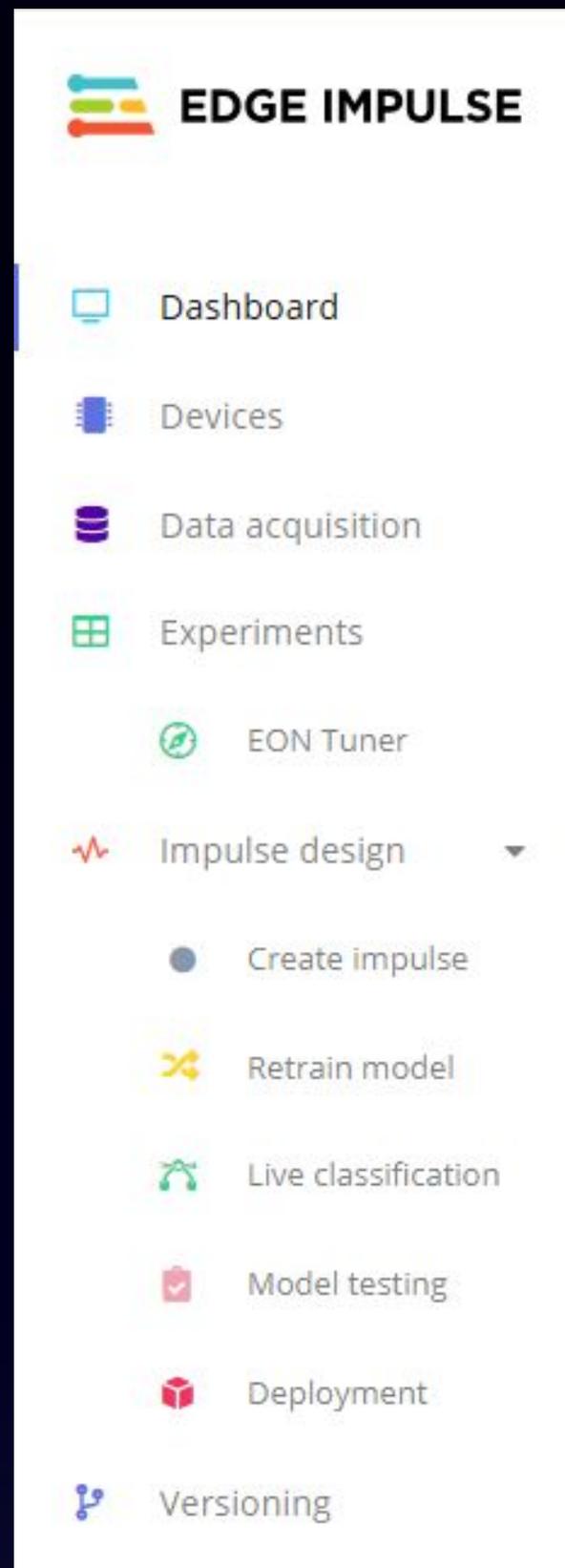
★ Want full-feature access and unlimited projects? Try [Enterprise free](#).

Create new project

Step 5: Getting Started

The screenshot shows the Edge Impulse Studio web interface. The browser address bar displays 'studio.edgeimpulse.com/studio/712880'. The user is logged in as 'Raushan' with a 'PERSONAL' account. The target device is set to 'Cortex-M4F 80MHz'. The main navigation menu on the left is highlighted with a red box and includes: Dashboard, Devices, Data acquisition, Experiments, EON Tuner, Impulse design (with a dropdown menu containing Create impulse, Retrain model, Live classification, Model testing, and Deployment), and Versioning. The main content area is titled 'TinyML and IoT' and includes a 'Project info' tab, 'Keys', 'Export', and 'Jobs' options. A '+ New tag' button is visible. The 'Getting started' section provides instructions on building a dataset or validating model performance, with three main actions: 'Add existing data', 'Collect new data', and 'Upload your model'. Below this, a 'Start with a tutorial' section offers three guided paths: 'Motion: Gesture recognition', 'Images: Object detection', and 'Audio: Audio classification'. On the right, the 'Sharing' section shows the project is 'Public' and provides a share link: 'https://studio.edgeimpulse.com/public/712880/live'. The 'Published versions (0)' section indicates no versions are published, with a 'Publish a version of your project' button. The 'Collaborators (1/4)' section shows the user 'Raushan' as the owner.

Step 6: Getting Started



Step 7: Getting Started

The screenshot shows the Edge Impulse web interface for a project named "TinyML and IoT". The user is logged in as "Raushan" with a "PERSONAL" account. The target hardware is set to "Cortex-M4F 80MHz". The dashboard includes a sidebar with navigation options like Dashboard, Devices, Data acquisition, Experiments, EON Tuner, Impulse design, and Versioning. The main content area is titled "Getting started" and offers three primary actions: "Add existing data" (highlighted with a red box), "Collect new data", and "Upload your model". Below these, there is a "Start with a tutorial" section with three options: "Motion: Gesture recognition", "Images: Object detection", and "Audio: Audio classification". On the right, there is a "Sharing" section with a public link and a "Published versions (0)" section with a "Publish a version of your project" button. At the bottom, a "Collaborators (1/4)" section shows the user "Raushan" as the "OWNER".

Step 8: Getting Started

The screenshot shows the Edge Impulse web interface for a project named "TinyML and IoT". The user is logged in as "Raushan" with a "PERSONAL" account. The target hardware is set to "Cortex-M4F 80MHz". The dashboard includes a sidebar with navigation options like Dashboard, Devices, Data acquisition, Experiments, EON Tuner, Impulse design, and Versioning. The main content area is titled "Getting started" and offers three primary actions: "Add existing data", "Collect new data" (highlighted with a red border), and "Upload your model". Below this, there is a "Start with a tutorial" section with three options: "Motion: Gesture recognition", "Images: Object detection", and "Audio: Audio classification". On the right, there is a "Sharing" section with a public link and a "Published versions (0)" section with a "Publish a version of your project" button. At the bottom, there is a "Collaborators (1/4)" section showing the user "Raushan" as the "OWNER".

Step 9: Getting Started

The screenshot shows the Edge Impulse web interface for a project named "TinyML and IoT". The user is logged in as "Raushan" with a "PERSONAL" account. The target hardware is set to "Cortex-M4F 80MHz". The dashboard includes a sidebar with navigation options like Dashboard, Devices, Data acquisition, Experiments, EON Tuner, Impulse design, and Versioning. The main content area has tabs for "Project info", "Keys", "Export", and "Jobs". A "New tag" button is visible. The "Getting started" section offers three options: "Add existing data", "Collect new data", and "Upload your model" (highlighted with a red box). Below this, a "Start with a tutorial" section provides three tutorial cards: "Motion: Gesture recognition", "Images: Object detection", and "Audio: Audio classification". On the right, a "Sharing" section shows the project is public and provides a share link. Below that, the "Published versions (0)" section indicates no versions are published, with a "Publish a version of your project" button. The "Collaborators (1/4)" section shows the user "Raushan" as the owner.

Step 10: Getting Started

EDGE IMPULSE

Raushan / TinyML and IoT PERSONAL Target: Cortex-M4F 80MHz

Project info Keys Export Jobs

TinyML and IoT

This is your Edge Impulse project. From here you acquire new training data, design impulses and train models.

+ New tag

Getting started

Start building your dataset or validate your model's on-device performance:

- Add existing data
- Collect new data
- Upload your model

Start with a tutorial

Not sure where to start? Follow a tutorial to build your first model in just minutes!

- Motion: Gesture recognition**
- Images: Object detection
- Audio: Audio classification

Sharing

Public

Anyone on the internet can view and clone this project under the [3-Clause BSD license](#). Only invited users can edit.

SHARE LINK

<https://studio.edgeimpulse.com/public/712880/live>

Published versions (0)

This project has no published versions.

Publish a version of your project

Collaborators (1/4)

Raushan OWNER

Step 11: Getting Started

EDGE IMPULSE

Raushan / TinyML and IoT PERSONAL Target: Cortex-M4F 80MHz

Project info Keys Export Jobs

TinyML and IoT

This is your Edge Impulse project. From here you acquire new training data, design impulses and train models.

+ New tag

Getting started

Start building your dataset or validate your model's on-device performance:

- Add existing data
- Collect new data
- Upload your model

Start with a tutorial

Not sure where to start? Follow a tutorial to build your first model in just minutes!

- Motion: Gesture recognition
- Images: Object detection**
- Audio: Audio classification

Sharing

Public

Anyone on the internet can view and clone this project under the [3-Clause BSD license](#). Only invited users can edit.

SHARE LINK
<https://studio.edgeimpulse.com/public/712880/live>

Published versions (0)

This project has no published versions.

Publish a version of your project

Collaborators (1/4)

Raushan OWNER

Step 12: Getting Started

EDGE IMPULSE

Raushan / TinyML and IoT PERSONAL Target: Cortex-M4F 80MHz

Project info Keys Export Jobs

TinyML and IoT

This is your Edge Impulse project. From here you acquire new training data, design impulses and train models.

+ New tag

Getting started

Start building your dataset or validate your model's on-device performance:

- Add existing data
- Collect new data
- Upload your model

Start with a tutorial

Not sure where to start? Follow a tutorial to build your first model in just minutes!

- Motion: Gesture recognition
- Images: Object detection
- Audio: Audio classification**

Sharing

Public

Anyone on the internet can view and clone this project under the [3-Clause BSD license](#). Only invited users can edit.

SHARE LINK
<https://studio.edgeimpulse.com/public/712880/live>

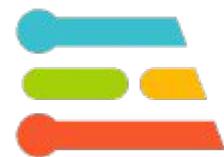
Published versions (0)

This project has no published versions.

Publish a version of your project

Collaborators (1/4)

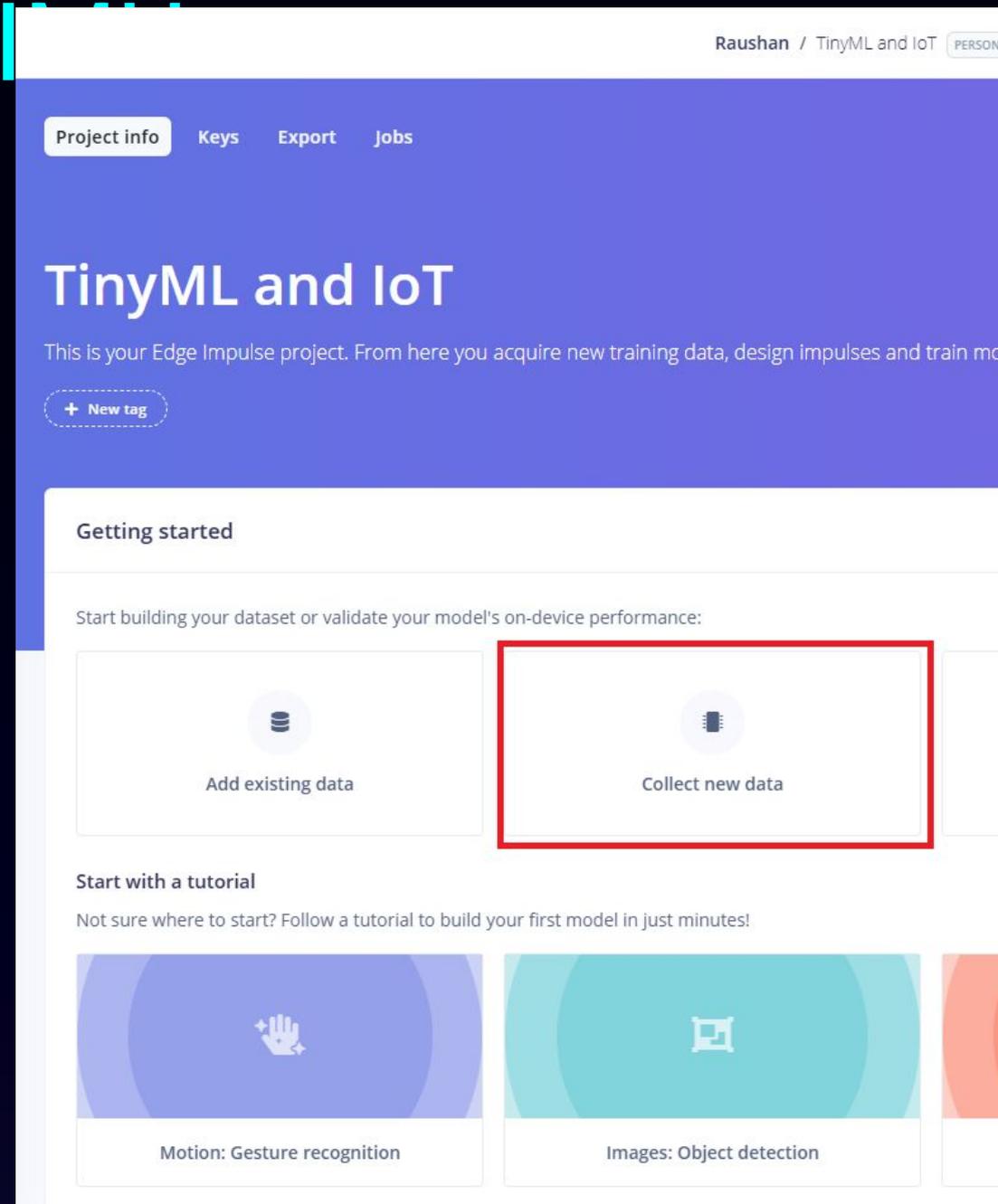
Raushan OWNER



EDGE IMPULSE

Data Collection

Step 13: Collect new data and Scan QR to use Phone



Raushan / TinyML and IoT PERSON

Project info Keys Export Jobs

TinyML and IoT

This is your Edge Impulse project. From here you acquire new training data, design impulses and train mo

+ New tag

Getting started

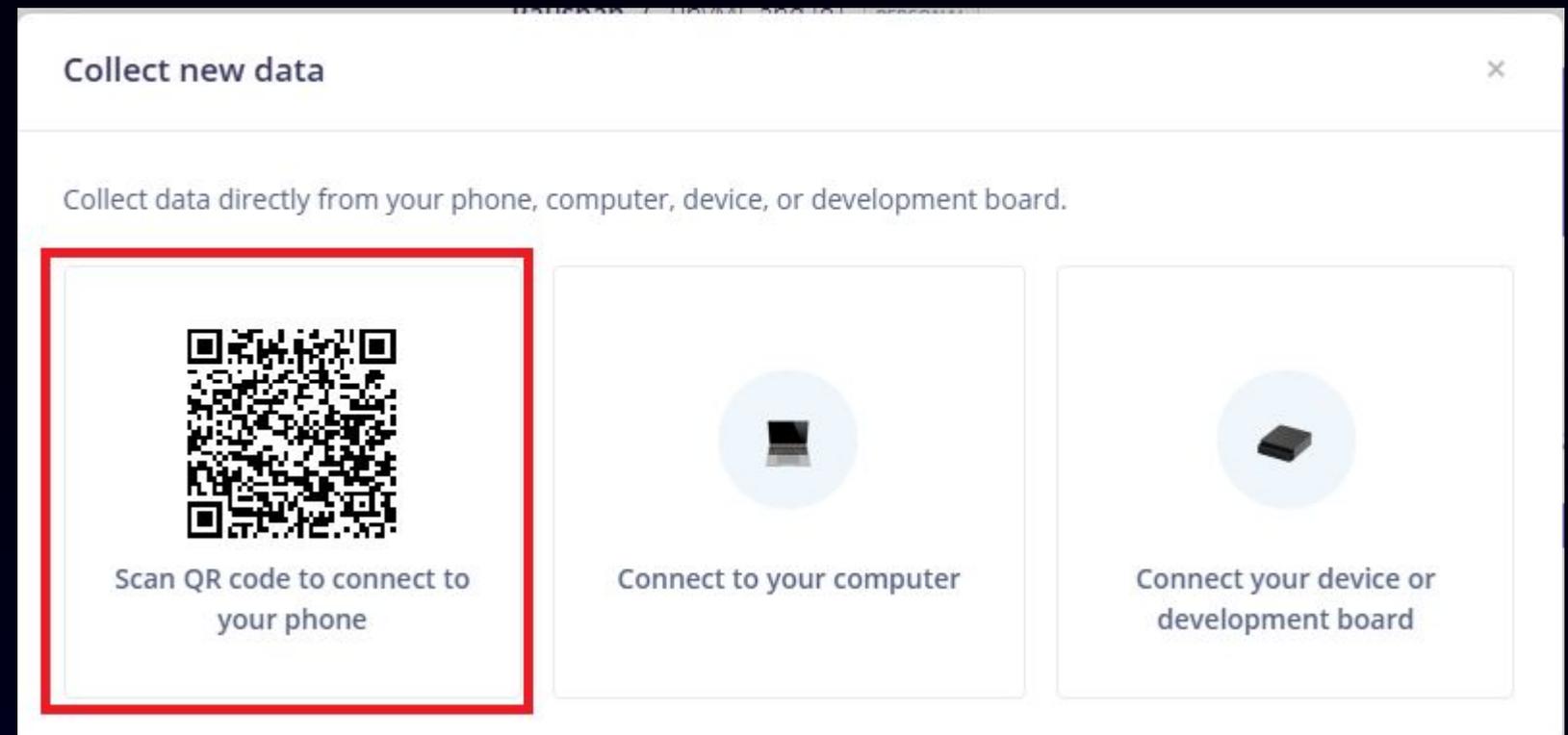
Start building your dataset or validate your model's on-device performance:

- Add existing data
- Collect new data**

Start with a tutorial

Not sure where to start? Follow a tutorial to build your first model in just minutes!

- Motion: Gesture recognition
- Images: Object detection

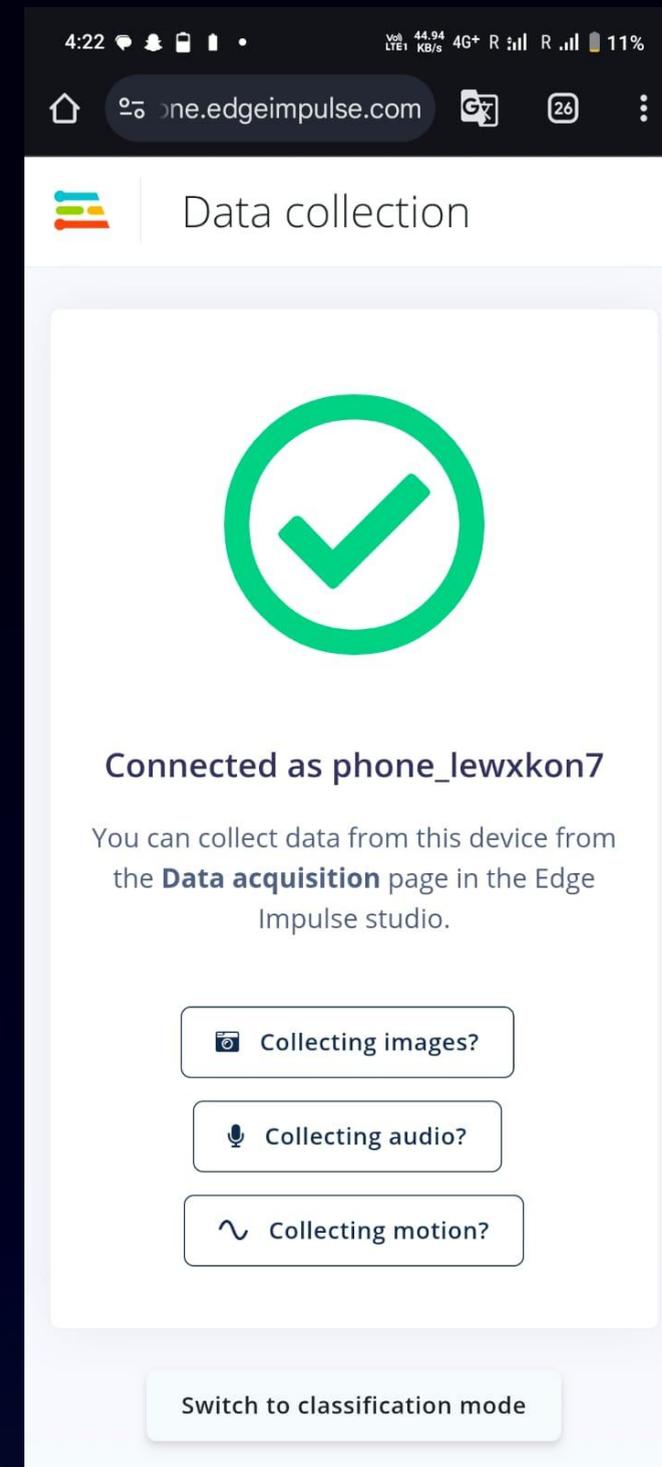
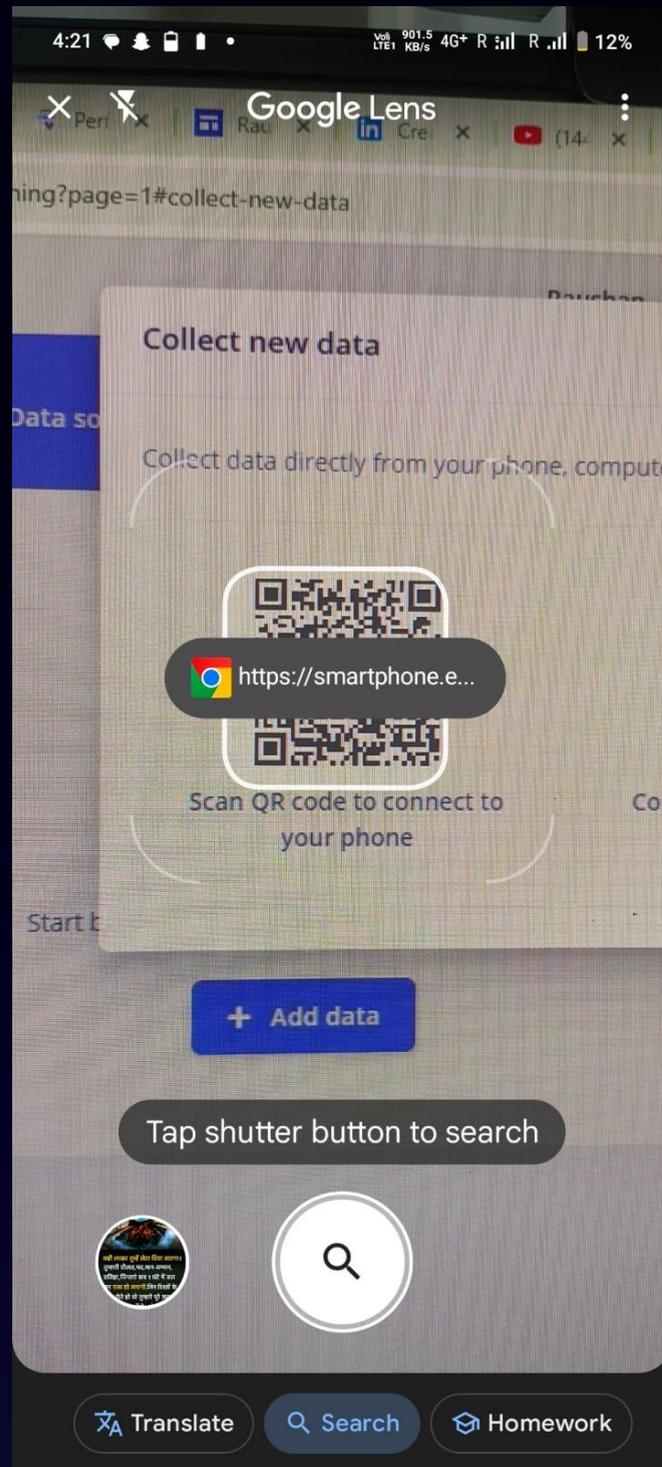


Collect new data

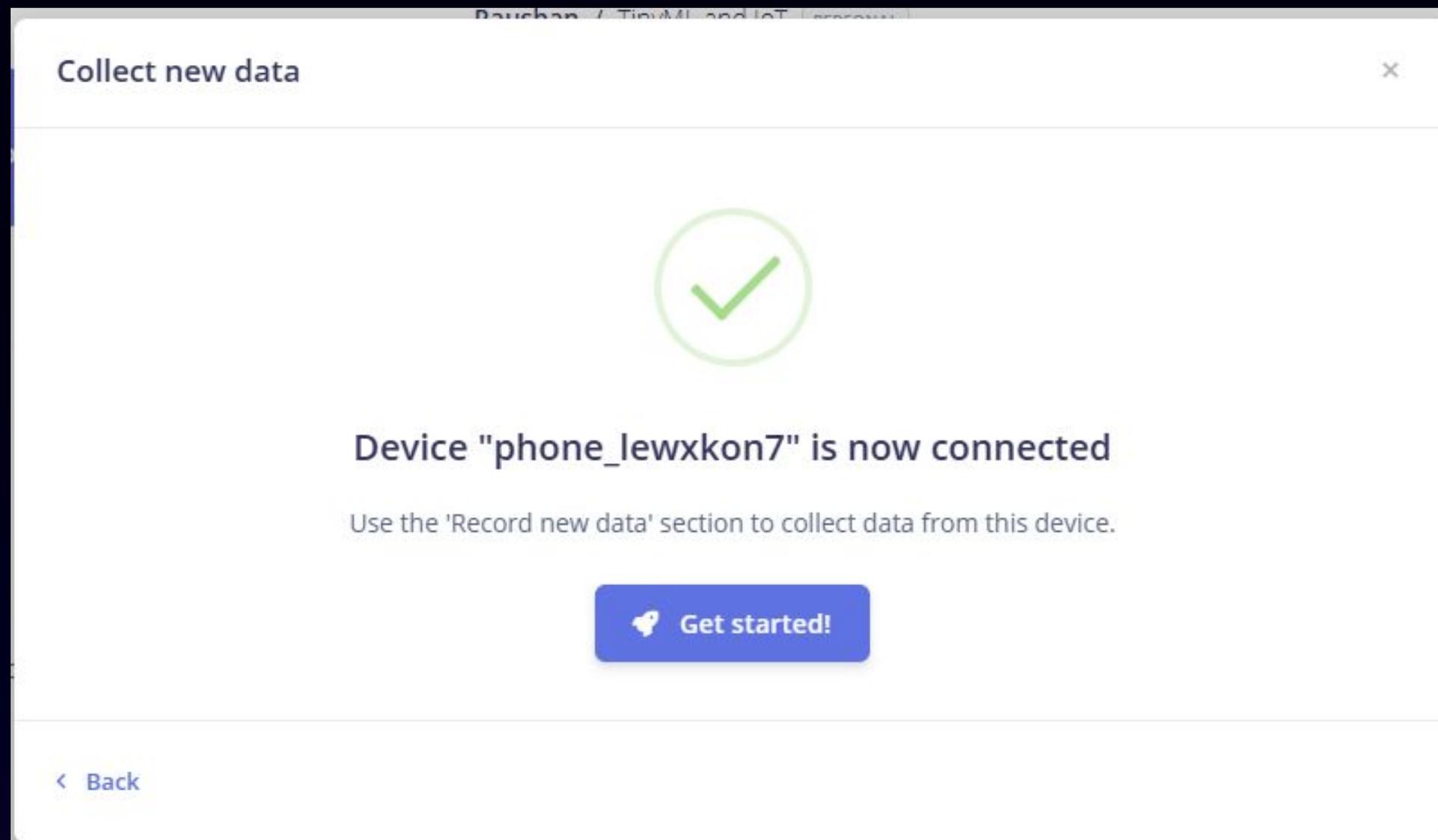
Collect data directly from your phone, computer, device, or development board.

- Scan QR code to connect to your phone**
- Connect to your computer
- Connect your device or development board

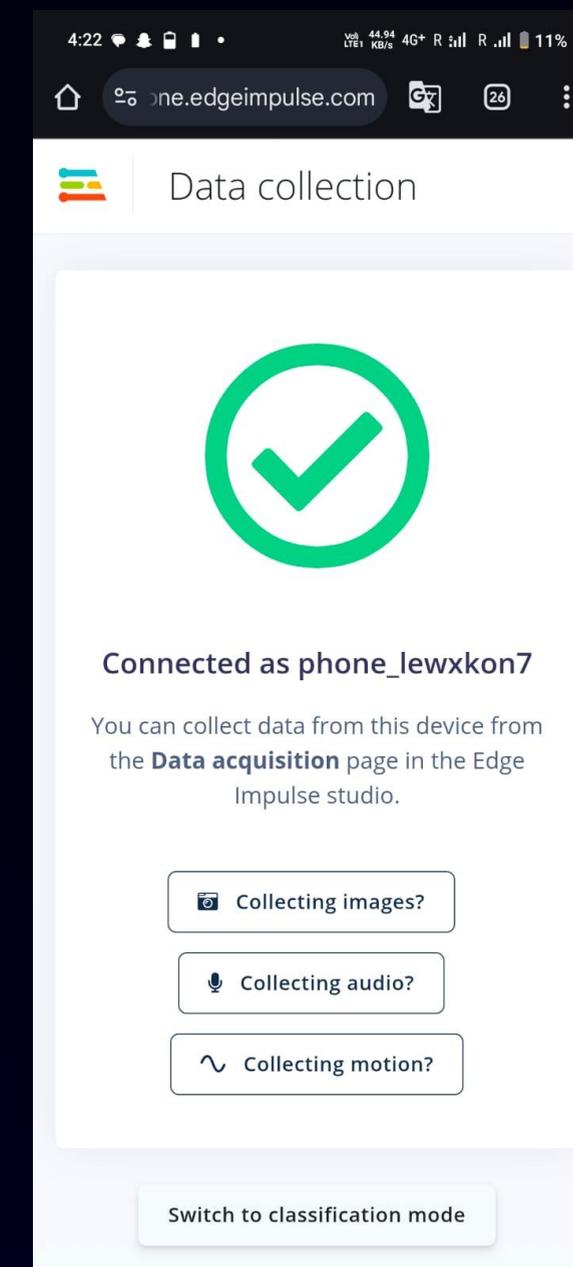
Step 14: Phone Screen: Scan QR in Google Lens and Cont.



Step 15: Create account on Edge Impulse Studio & Login

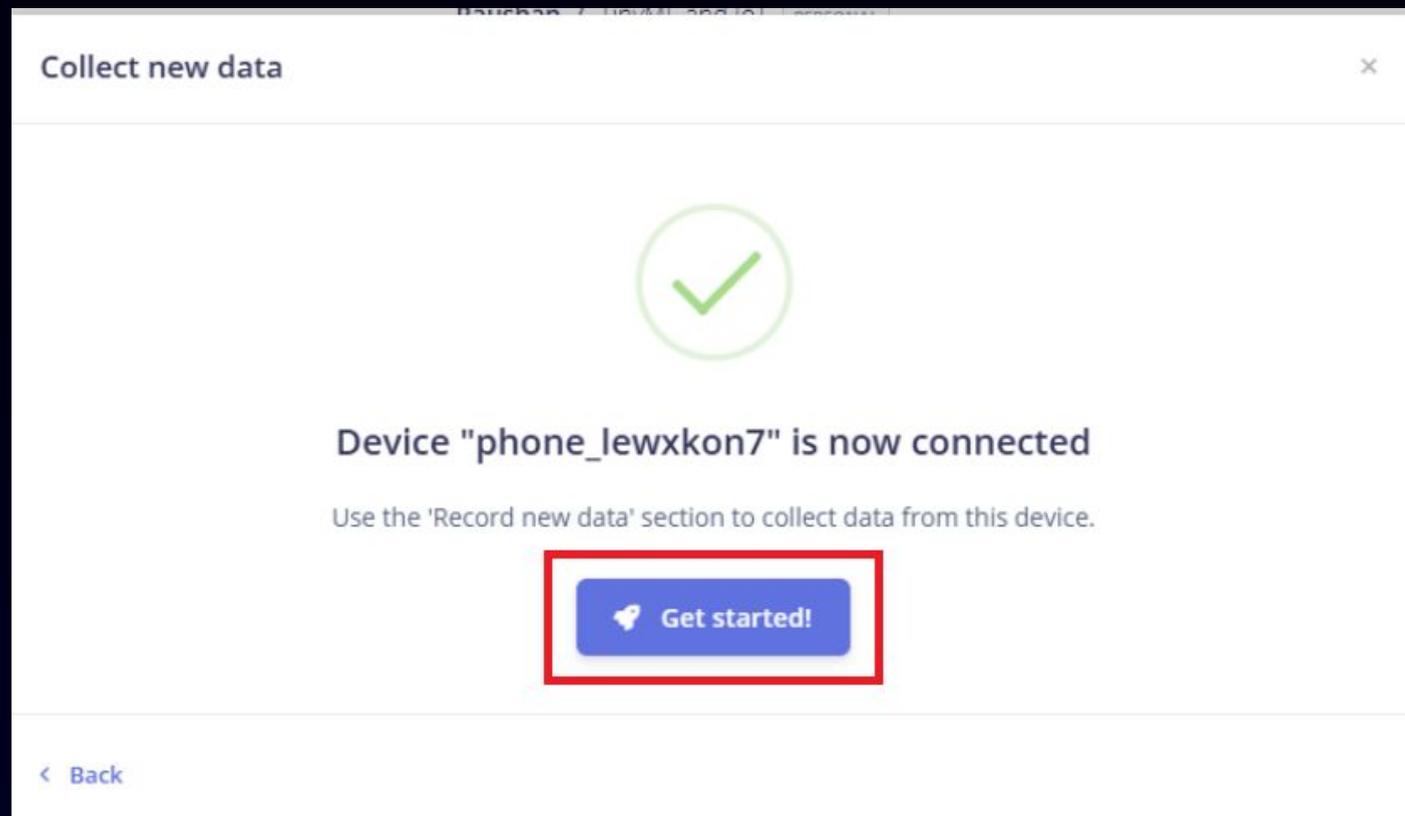


Computer Screen

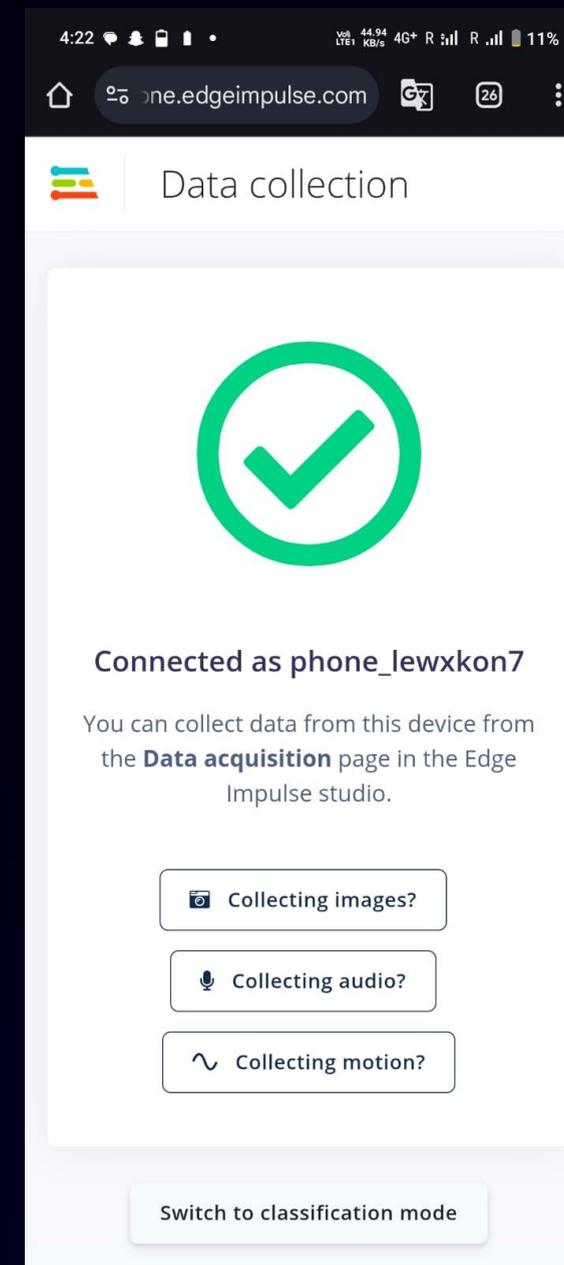


Phone Screen

Step 16: Create account on Edge Impulse Studio & Login



Computer Screen



Phone Screen

Step 17: Verify both the phone and PC Screen

Collect data

Device ?

phone_lewxkon7

Label

Label name

Sample length (ms.)

10000

Sensor

Accelerometer

Frequency

62.5Hz

Start sampling

Computer Screen

4:22 44.94 KB/s 4G+ R 11%

one.edgeimpulse.com

Data collection

Connected as phone_lewxkon7

You can collect data from this device from the **Data acquisition** page in the Edge Impulse studio.

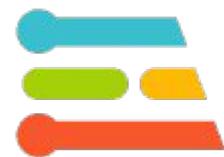
Collecting images?

Collecting audio?

Collecting motion?

Switch to classification mode

Phone Screen



EDGE IMPULSE

Experiment 1: Fall Detection

Step 18: Verify both the phone and PC Screen

The screenshot shows the 'Collect data' interface. The 'Device' dropdown is set to 'phone_lewxkon7'. The 'Label' field contains 'Safe'. The 'Sample length (ms.)' field contains '10000'. The 'Frequency' dropdown is set to '62.5Hz'. The 'Sensor' dropdown menu is open, showing options: 'Positional', 'Accelerometer', 'Microphone', 'Camera', and 'Positional'. The 'Positional' option at the bottom is highlighted in blue and enclosed in a red rectangular box.

Select Sensor

The screenshot shows the 'Collect data' interface. The 'Device' dropdown is set to 'phone_lewxkon7'. The 'Label' field contains 'Safe' and is highlighted with a red rectangular box. The 'Sample length (ms.)' field contains '10000'. The 'Sensor' dropdown is set to 'Positional'. The 'Frequency' dropdown is set to '62.5Hz'. A 'Start sampling' button is visible at the bottom right.

Label the Sample

Step 19: Verify both the phone and PC Screen

Collect data

Device ?

phone_lewxkon7

Label

Safe

Sample length (ms.)

10000

Sensor

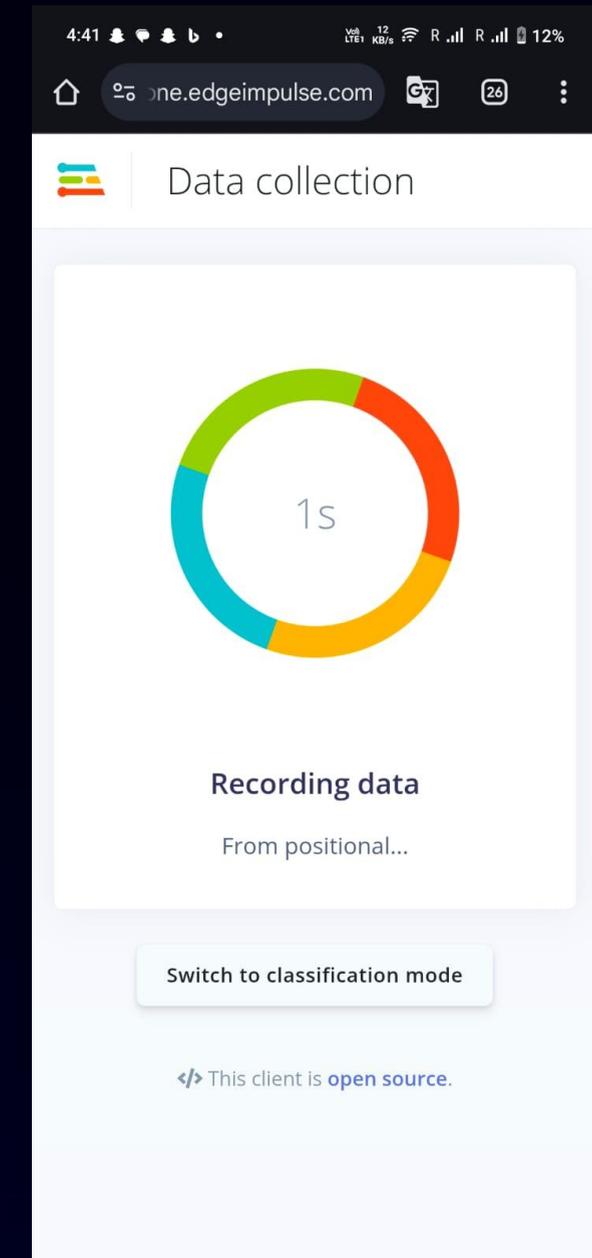
Positional

Frequency

62.5Hz

Start sampling

PC: Start Sampling



Phone: Record data

Step 20: Verify both the phone and PC Screen

The screenshot displays the TinyML and IoT interface. At the top, the user is identified as 'Raushan / TinyML and IoT' with a 'PERSONAL' profile. The target device is 'Cortex-M4F 80MHz'. The main navigation bar includes 'Dataset', 'Data explorer', 'Data sources', 'Synthetic data', 'AI labeling', and 'CSV Wizard'. The 'Dataset' section shows 'DATA COLLECTED 10s' and 'TRAIN / TEST SPLIT 100% / 0%'. Below this, a table lists the dataset details:

SAMPLE NAME	LABEL	ADDED	LENGTH
Safe.5sncfjtv	Safe	Today, 16:41:49	10s

The 'Collect data' section on the right shows the device 'phone_lewxkon7', label 'Safe', sample length '10000', sensor 'Positional', and frequency '62.5Hz'. A 'Start sampling' button is visible. The 'RAW DATA' section at the bottom right shows a graph for 'Safe.5sncfjtv' with a y-axis from -50 to 300 and an x-axis from 0ms to 9360ms. The graph shows a step function that jumps from 0 to approximately 280 at the start and remains constant thereafter.

Data collection and Visualization



EDGE IMPULSE

Labelling: Safe

Step 21: Keep phone in pocket and do normal work



DATA COLLECTED
20s

TRAIN / TEST SPLIT
100% / 0%

Collect data

Device
phone_lewxkon7

Label
Safe

Sample length (ms.)
10000

Sensor
Positional

Frequency
62.5Hz

Start sampling

SAMPLE NAME	LABEL	ADDED	LENGTH
Safe.5sncq5qn	Safe	Today, 16:47:35	10s
Safe.5sncfjtv	Safe	Today, 16:41:49	10s

RAW DATA
Safe.5sncq5qn

accX accY accZ gyroX gyroY gyroZ yaw pitch roll

Change Label to "Safe"

Step 22: Keep doing that for around 30-40 samples



Dataset | Data explorer | Data sources | Synthetic data | AI labeling | CSV Wizard

DATA COLLECTED: 3m 20s

TRAIN / TEST SPLIT: 100% / 0%

Collect data

Device: phone_lewxkon7

Label: Safe

Sample length (ms.): 10000

Sensor: Positional

Frequency: 62.5Hz

Start sampling

SAMPLE NAME	LABEL	ADDED	LENGTH
Safe.5sndifjm	Safe	Today, 17:00:52	10s
Safe.5sndhvr0	Safe	Today, 17:00:36	10s
Safe.5sndhe01	Safe	Today, 17:00:17	10s
Safe.5sndh06c	Safe	Today, 17:00:03	10s
Safe.5sndgb3a	Safe	Today, 16:59:42	10s
Safe.5sndfm6q	Safe	Today, 16:59:20	10s
Safe.5sndf84t	Safe	Today, 16:59:06	10s
Safe.5sndeqfe	Safe	Today, 16:58:52	10s
Safe.5snddu3q	Safe	Today, 16:58:23	10s
Safe.5snddfu6	Safe	Today, 16:58:08	10s
Safe.5sndcoav	Safe	Today, 16:57:44	10s

RAW DATA: Safe.5sndifjm

Data collection and Visualization



EDGE IMPULSE

Labelling: Fall

Step 23: Keep collecting fall data.



Dataset | Data explorer | Data sources | Synthetic data | AI labeling | CSV Wizard

DATA COLLECTED: 3m 30s

TRAIN / TEST SPLIT: 100% / 0%

Collect data

Device: phone_lewxkon7

Label: Fall

Sample length (ms.): 10000

Sensor: Positional

Frequency: 62.5Hz

Start sampling

SAMPLE NAME	LABEL	ADDED	LENGTH
Fall.5sne3fin	Fall	Today, 17:10:09	10s
Safe.5sndifjm	Safe	Today, 17:00:52	10s
Safe.5sndhvr0	Safe	Today, 17:00:36	10s
Safe.5sndhe01	Safe	Today, 17:00:17	10s
Safe.5sndh06c	Safe	Today, 17:00:03	10s
Safe.5sndgb3a	Safe	Today, 16:59:42	10s
Safe.5sndfm6q	Safe	Today, 16:59:20	10s
Safe.5sndf84t	Safe	Today, 16:59:06	10s
Safe.5sndeqfe	Safe	Today, 16:58:52	10s
Safe.5snddu3q	Safe	Today, 16:58:23	10s
Safe.5snddfu6	Safe	Today, 16:58:08	10s

RAW DATA

Fall.5sne3fin

A waveform plot showing the raw data for the sample 'Fall.5sne3fin'. The y-axis represents amplitude, ranging from -500 to 400. The x-axis represents time in milliseconds, ranging from 0ms to 9360ms. The plot shows a complex, multi-colored waveform with several sharp peaks and troughs, characteristic of a fall event.

Change Label to "Fall"

Step 24: Keep doing that for around 30-40 samples



Dataset | Data explorer | Data sources | Synthetic data | AI labeling | CSV Wizard

DATA COLLECTED
6m 40s

TRAIN / TEST SPLIT
100% / 0%

Collect data

Device ?
No devices connected

Label
Fall

Sample length (ms.)
10000

Sensor

Frequency

Start sampling

Dataset

Training (40) Test (0)

SAMPLE NAME	LABEL	ADDED	LENGTH
Fall.5snegusa	Fall	Today, 17:17:30	10s
Fall.5sneggmq	Fall	Today, 17:17:16	10s
Fall.5sneg25d	Fall	Today, 17:17:01	10s
Fall.5snefjg5	Fall	Today, 17:16:46	10s
Fall.5snef33i	Fall	Today, 17:16:29	10s
Fall.5snedp3v	Fall	Today, 17:15:46	10s
Fall.5sned9ps	Fall	Today, 17:15:30	10s
Fall.5snecp0u	Fall	Today, 17:15:13	10s
Fall.5snec96s	Fall	Today, 17:14:57	10s
Fall.5snebnim	Fall	Today, 17:14:39	10s
Fall.5sneb8lu	Fall	Today, 17:14:24	10s

RAW DATA
Fall.5snegusa

A waveform plot showing raw data for the sample 'Fall.5snegusa'. The y-axis ranges from -800 to 600, and the x-axis shows time from 0ms to 9360ms. The plot displays a complex, multi-colored waveform (orange, yellow, green) that fluctuates significantly around a zero baseline, characteristic of a fall event.

Change Label to "Fall"

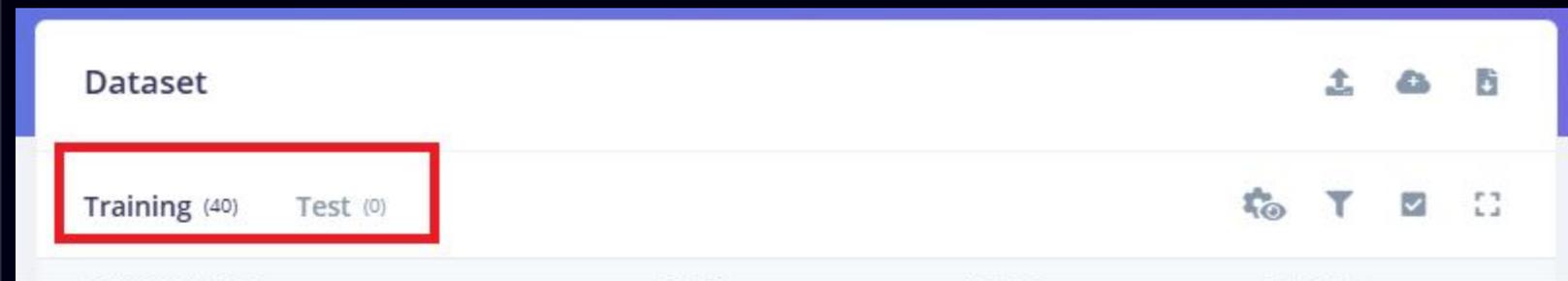
Step 25: Select the Model deployment tool

The screenshot shows the Raushan TinyML and IoT interface. At the top right, a dropdown menu is open, showing 'Target: Cortex-M4F 80MHz' highlighted in red. The interface includes a navigation bar with 'Dataset', 'Data explorer', 'Data sources', 'Synthetic data', 'AI labeling', and 'CSV Wizard'. Below this, there are two circular progress indicators: 'DATA COLLECTED 6m 40s' and 'TRAIN / TEST SPLIT 100% / 0%'. A 'Collect data' section contains a button to 'Connect a device to start building your dataset.' The bottom section is labeled 'RAW DATA' and says 'Click on a sample to load...'.

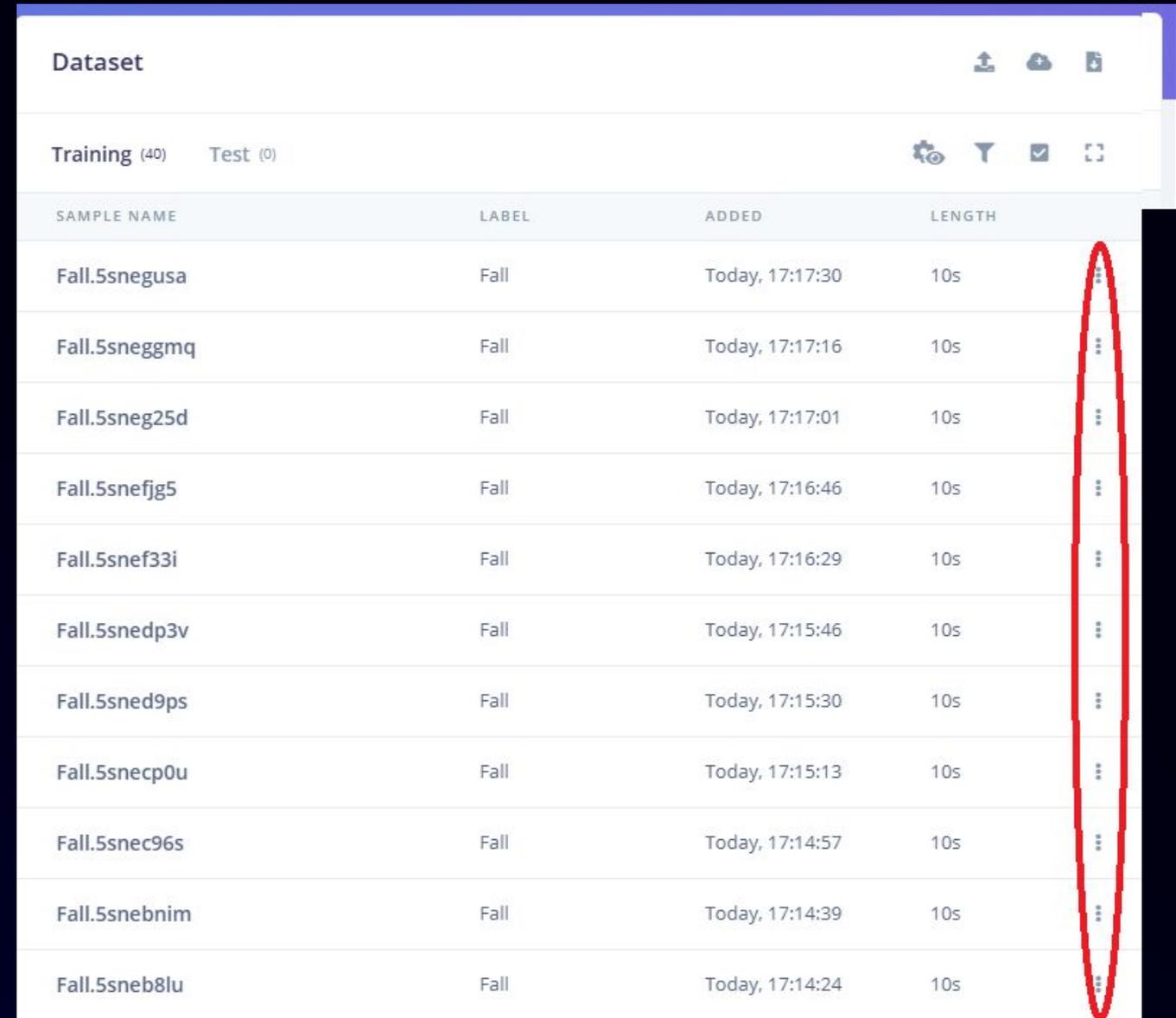
This screenshot shows the 'Configure your target device and application budget' dialog box. The 'Target device' dropdown is set to 'Cortex-M4F 80MHz', which is highlighted with a red box. Other settings include 'Processor family' set to 'Cortex-M', 'Clock rate' set to '80' MHz, and 'Application budget' fields for RAM (128 KB), ROM (1 MB), and Latency (100 ms). There are 'Reset to default settings' and 'Save' buttons at the bottom.

This screenshot shows the same dialog box as the previous one, but with the 'Target device' dropdown menu open. The menu lists various target devices, including 'Cortex-M4F 80MHz', 'Renesas RA8D1 (Cortex-M85 480MHz)', 'Renesas RZ/G2L', 'Renesas RZ/V2H (CPU)', 'Renesas RZ/V2H (with DRP-AI3 accelerator)', 'Renesas RZ/V2L (CPU)', 'Renesas RZ/V2L (with DRP-AI accelerator)', 'ST IoT Discovery Kit (Cortex-M4F 80MHz)', 'ST STM32N6 (Cortex-M55 800MHz + ST Neural-ART accelerator)', 'Seeed SenseCAP A1101 (HX6537-A ARC DSP 400MHz)', 'Seeed Studio Wio Terminal (Cortex-M4F 120MHz)', 'Seeed Vision AI Module (HX6537-A ARC DSP 400MHz)', 'SiLabs EFR32MG24 (Cortex-M33 78MHz)', 'SiLabs Thunderboard Sense 2 (Cortex-M4F 40MHz)', 'Sony Spresense (Cortex-M4F 156MHz)', 'Synaptics KA10000', 'TI AM62A (with Deep Learning Accelerator)', 'TI AM68A (with Deep Learning Accelerator)', 'TI LAUNCHXL-CC1352P (Cortex-M4F 48MHz)', 'TI TDA4VM (with matrix multiply accelerator (MMA))', and 'Think Silicon Neox GA100 (200 MHz) [BETA]'. The 'Seeed SenseCAP A1101' option is highlighted in blue.

Step 26: Divide Training and Test sample to 100/20 %



The screenshot shows the 'Dataset' interface with a red box highlighting the 'Training (40)' and 'Test (0)' labels. The interface includes a title 'Dataset', a 'Training (40)' label, a 'Test (0)' label, and a set of icons for settings, filters, and other actions.



The screenshot shows a detailed view of the 'Dataset' interface. It features a table with columns for 'SAMPLE NAME', 'LABEL', 'ADDED', and 'LENGTH'. The 'Training (40)' and 'Test (0)' labels are visible at the top. A red oval highlights the vertical ellipsis menu icon on the right side of the table.

SAMPLE NAME	LABEL	ADDED	LENGTH
Fall.5snegusa	Fall	Today, 17:17:30	10s
Fall.5sneggmq	Fall	Today, 17:17:16	10s
Fall.5sneg25d	Fall	Today, 17:17:01	10s
Fall.5snefjg5	Fall	Today, 17:16:46	10s
Fall.5snef33i	Fall	Today, 17:16:29	10s
Fall.5snedp3v	Fall	Today, 17:15:46	10s
Fall.5sned9ps	Fall	Today, 17:15:30	10s
Fall.5snecp0u	Fall	Today, 17:15:13	10s
Fall.5snec96s	Fall	Today, 17:14:57	10s
Fall.5snebnim	Fall	Today, 17:14:39	10s
Fall.5sneb8lu	Fall	Today, 17:14:24	10s

Step 27: Move 4 samples from safe & fall each to test

Dataset | Data explorer | Data sources | Synthetic data | AI labeling | CSV Wizard

DATA COLLECTED 6m 40s

TRAIN / TEST SPLIT 100% / 0%

Dataset

Training (40) Test (0)

SAMPLE NAME	LABEL	ADDED	LENGTH
Fall.5snegusa	Fall	Today, 17:17:30	10s
Fall.5sneggmq	Fall	Today, 17:17:16	10s
Fall.5sneg25d	Fall	Today, 17:17:01	10s
Fall.5snefjg5	Fall	Today, 17:16:48	10s
Fall.5snef33i	Fall	Today, 17:16:29	10s
Fall.5snedp3v	Fall	Today, 17:15:46	10s
Fall.5sned9ps	Fall	Today, 17:15:30	10s
Fall.5snecp0u	Fall	Today, 17:15:13	10s
Fall.5sne96s	Fall	Today, 17:14:57	10s
Fall.5snebnim	Fall	Today, 17:14:39	10s
Fall.5sneb8lu	Fall	Today, 17:14:24	10s

Context menu for 'Fall.5snefjg5':

- Rename
- Edit label
- Set multiple labels
- Move to test set
- Disable
- Crop sample
- Split sample
- Download
- Delete

DATA COLLECTED 6m 40s

TRAIN / TEST SPLIT 80% / 20%

Dataset

Training (32) Test (8)

SAMPLE NAME	LABEL	ADDED	LENGTH
Fall.5sne7ib3	Fall	Today, 17:12:23	10s
Fall.5sne732u	Fall	Today, 17:12:07	10s
Fall.5sne5vj9	Fall	Today, 17:11:31	10s
Fall.5sne3fin	Fall	Today, 17:10:09	10s
Safe.5sndifjm	Safe	Today, 17:00:52	10s
Safe.5sndhe01	Safe	Today, 17:00:17	10s
Safe.5sndf84t	Safe	Today, 16:59:06	10s
Safe.5snde9fe	Safe	Today, 16:58:52	10s

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Thank You for Your Attention