### FACE MASK DETECTION

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# Introduction to the Project

This TinyML-based Face Mask Detection project on Edge Impulse aims to build a smart, real-time solution that detects face masks efficiently.

# Real Life Application

- Healthcare Facilities
- Public Transport
- Retail and Workplaces
- Airports
- Shopping Malls

# Methodology

- ✓ Image Classification
- ✓ Data Acquisition
- √Impulse Design
- Training
- ✓ Testing
- Deployment

#### **Dataset Information**

- Dataset used: Facemask Detection Dataset
- Link to dataset:

https://universe.roboflow.com/pyimagesearch/covid-19-pis/dataset/2

### Results

- Model Accuracy
  - Achieved 98.6% accuracy in face mask detection



#### Model Evaluation Metrics (Validation Set):

METRIC	VALUE
Area under ROC Curve ③	0.99
Weighted average Precision ②	0.99
Weighted average Recall ②	0.99
Weighted average F1 score ②	0.99

## Demo

# **Thank You**