

# IESTIO1 – TinyML - 2021.2

## Final Group Project **Proposal**

**Project Proposal Delivery date:** October 20<sup>th</sup>

Groups should have preferable a minimum of 3 and a maximum of 4 participants.

### Suggested Project Template

1. Project name
2. Team member names, number (if applicable) and, Institution
3. Project Objectives (Goal) - short description
4. Longer project description
5. References (including other code or data), sources of inspiration
6. Descriptions of the following, at whatever depth the team feels appropriate:
  - a. Block Diagram
  - b. Hardware to be utilized
  - c. Data collection
  - d. Preprocessing
  - e. Model design
  - f. Optimizations
  - g. In system inference (Deploy)
7. Issues or roadblocks the team envision and potential solutions
8. The top unresolved question(s) the team have at this point

### Suggested Public Dataset repositories to be explored:

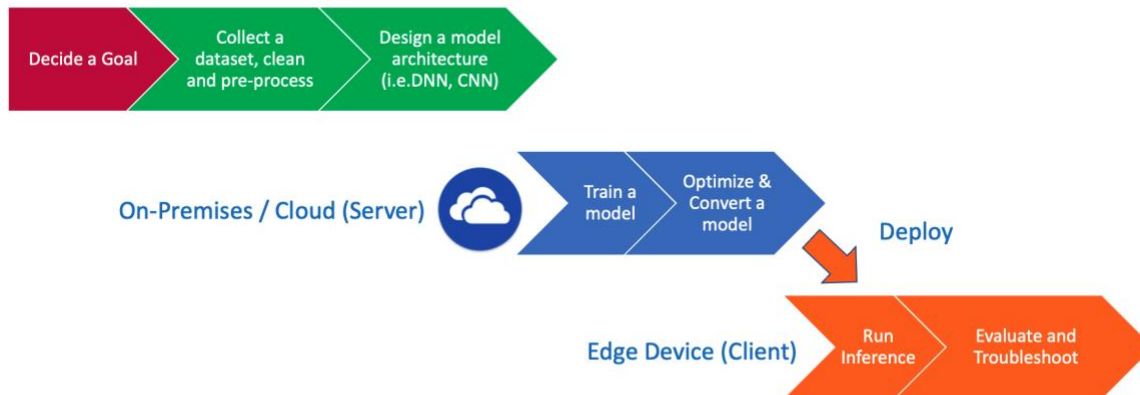
- <https://www.kaggle.com/datasets>
- <https://archive.ics.uci.edu/ml/datasets.php>
- <https://knowyourdata.withgoogle.com/>
- <https://datasetsearch.research.google.com/>

## Previous Projects Inspiration:

1. IESTIO1 2021.1 - Group Presentations
  - Group 1 - Seismic Detection [\[Docs\]](#) [\[Video\]](#)
  - Group 2 - Fire Detection [\[Docs\]](#) [\[Video\]](#)
  - Group 3 - Covid Detection (cough) [\[Docs\]](#) [\[Video\]](#)
  - Group 4 - Mask Detection [\[Docs\]](#) [\[Video\]](#)
  - Group 5 - Personal Trainer [\[Docs\]](#) [\[Video\]](#)
2. [Harvard CS249r – TinyML - Final Projects](#)

## Suggested Project Workflow

# Edge Machine Learning Workflow



## Final Comments

The Project Proposal to be delivered **is not binding**, what means that the group can decide later keep this project or to develop another one completely different.