

tinyML[®] Talks

Enabling Ultra-low Power Machine Learning at the Edge

“Introduction to TinyML (Herning/København)”

Morten Opprud, Steffen Breinbjerg, Jørgen Kragh, Gustaf Hammerberg
TinyML Copenhagen & IDA

November 20, 2023



www.tinyML.org



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for committing to take tinyML to the next Level, together



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Reasoning

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Action

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Edge cloud



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Mobile



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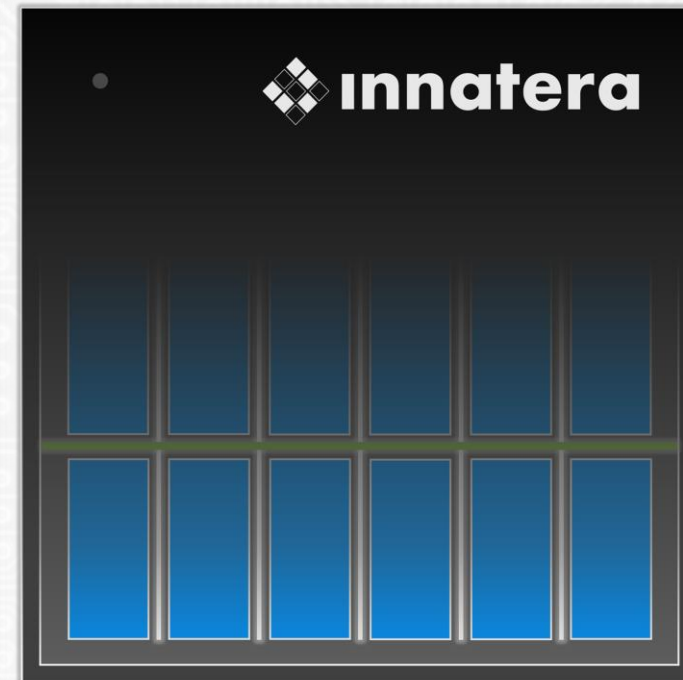
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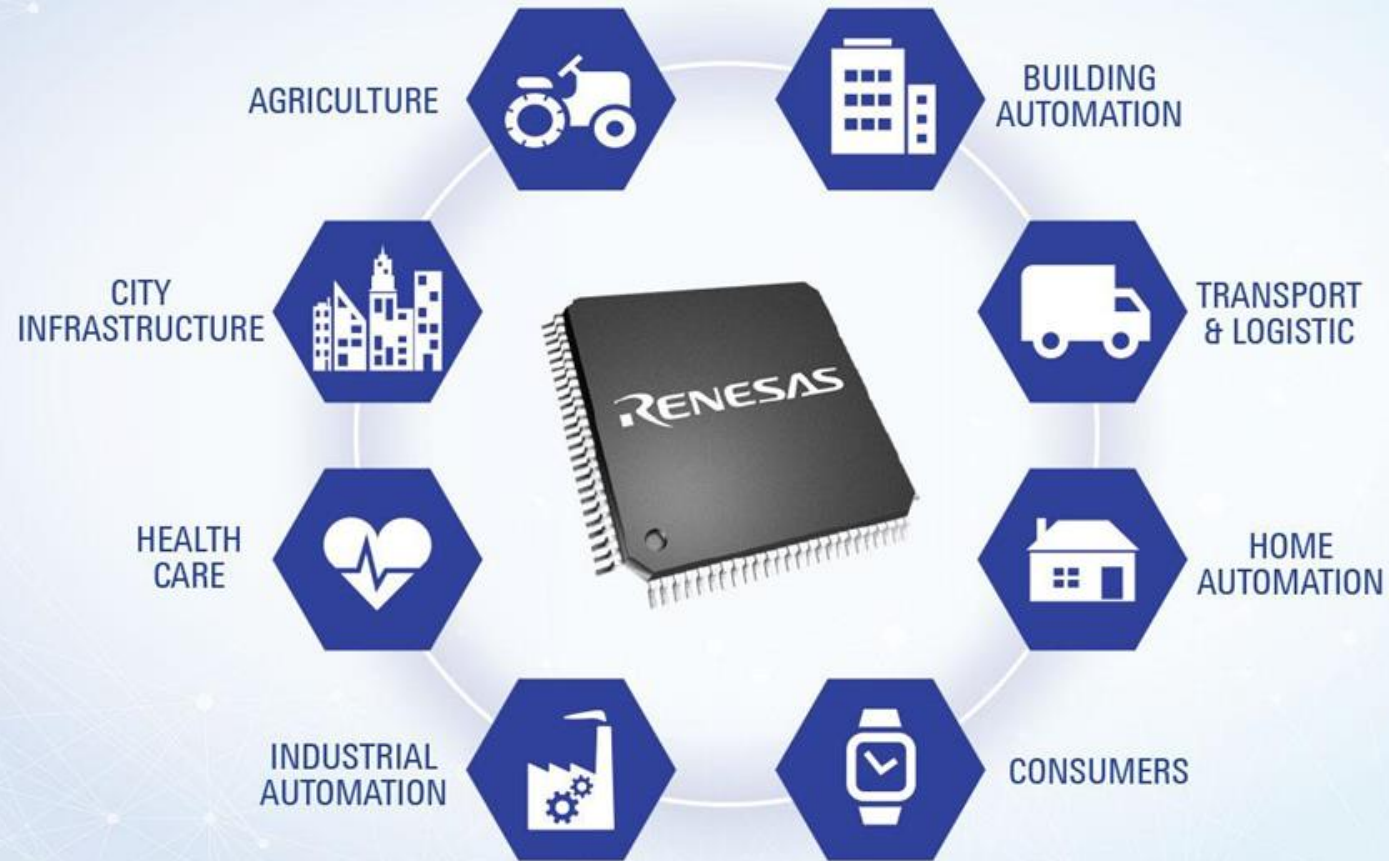


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<https://www.meetup.com/tinyML-Enabling-ultra-low-Power-ML-at-the-Edge/>



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The tinyML Community

<https://www.linkedin.com/groups/13694488/>





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tinyAI Forum on PdM & Anomaly Detection 2023



Interactive live webinar December 5, 2023 at 8AM Pacific Time
Registration is free of charge

tinyML Research Symposium

April 22, 2023

Call for Papers



Research Symposium - April 22, 2024

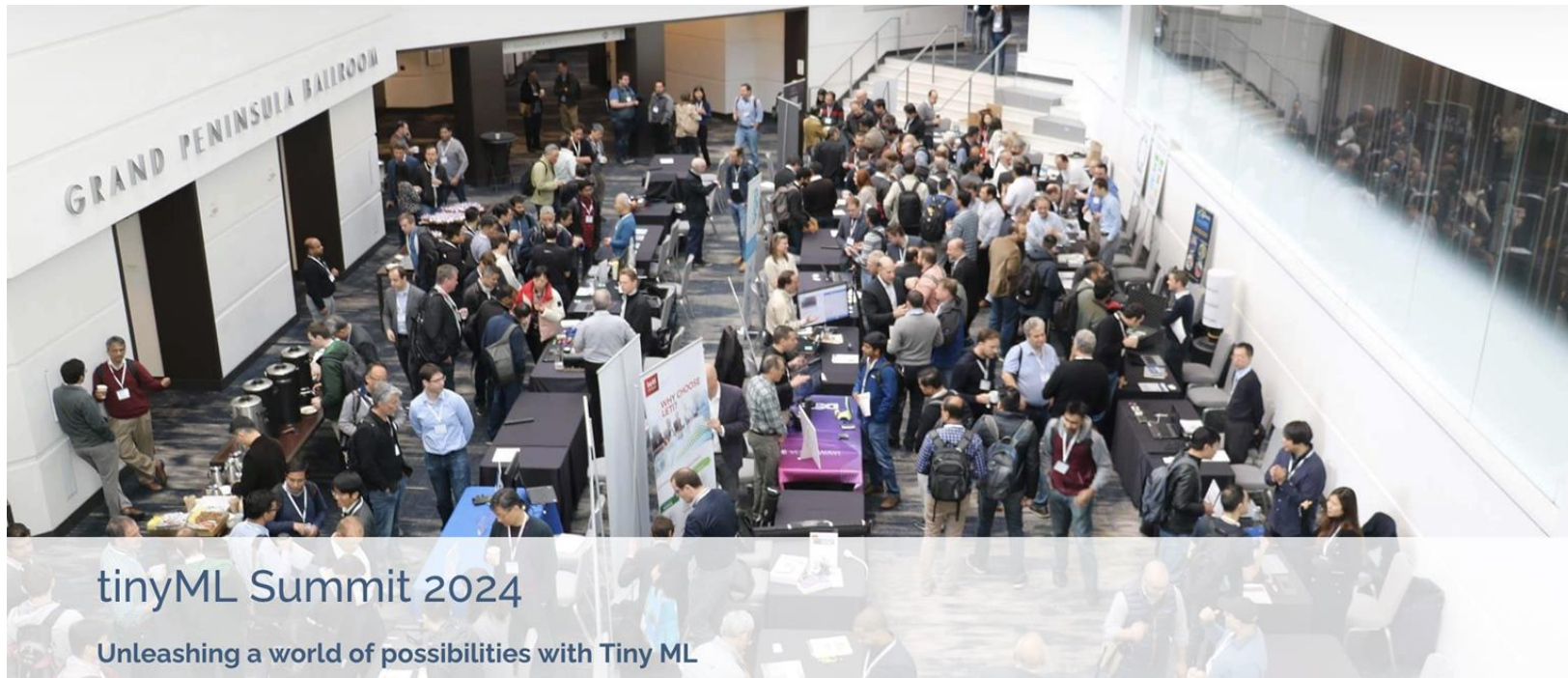
The tinyML research symposium serves as a flagship venue for related research at the intersection of machine learning applications, algorithms, software, and hardware in deeply embedded machine learning systems.

[Call for Papers](#)



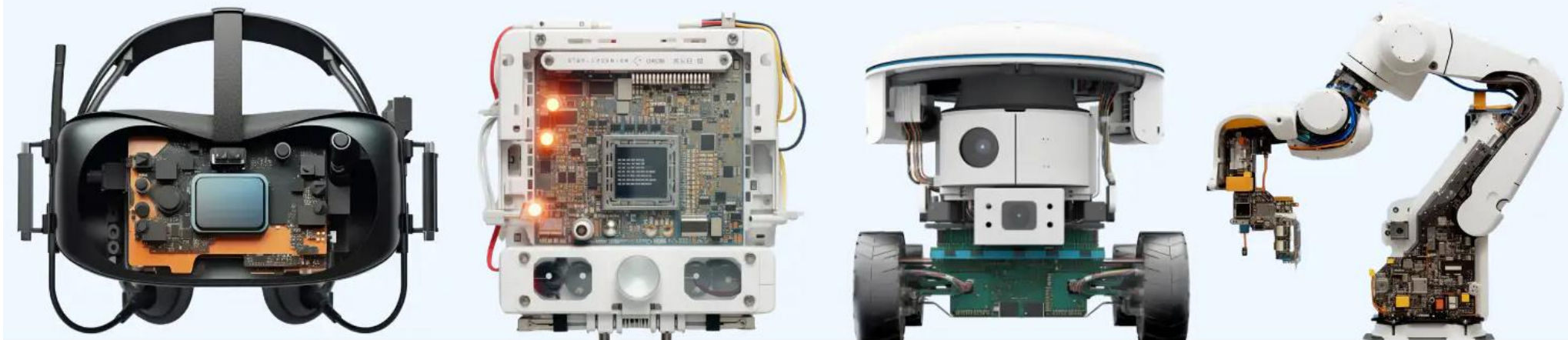
tinyML Summit April 23-24, 2024

Call for Presentations and Posters



2023 Edge AI Technology Report

The guide to understanding the state of the art in hardware & software in Edge AI.





Agenda - Workshop 1

- 17:30 : Welcome, workshop series introduction (All)
- 17:45 : An introduction to Tiny Machine Learning, TinyML (Mortier)
- 18:30 : Break, Sandwich, Networking
- 19:15 : Hardware hand-out, introduction, Workshop (Steffen + All)
- 20:45 : Summary & homework for next meetup

Who's who



Morten Opprud Jakobsen
PhD student, embedded
HW/SW development
TinyML CPH lead



Jørgen Kragh Jakobsen
OSHW / Chip designer
HW/SW developer
Coding pirate



Steffen Breinbjerg
Tiny/edge ML engineer,
Embedded firmware developer



Gustaf Hammarberg
Tiny/edge ML engineer,
ML tool developer,
AI consultant



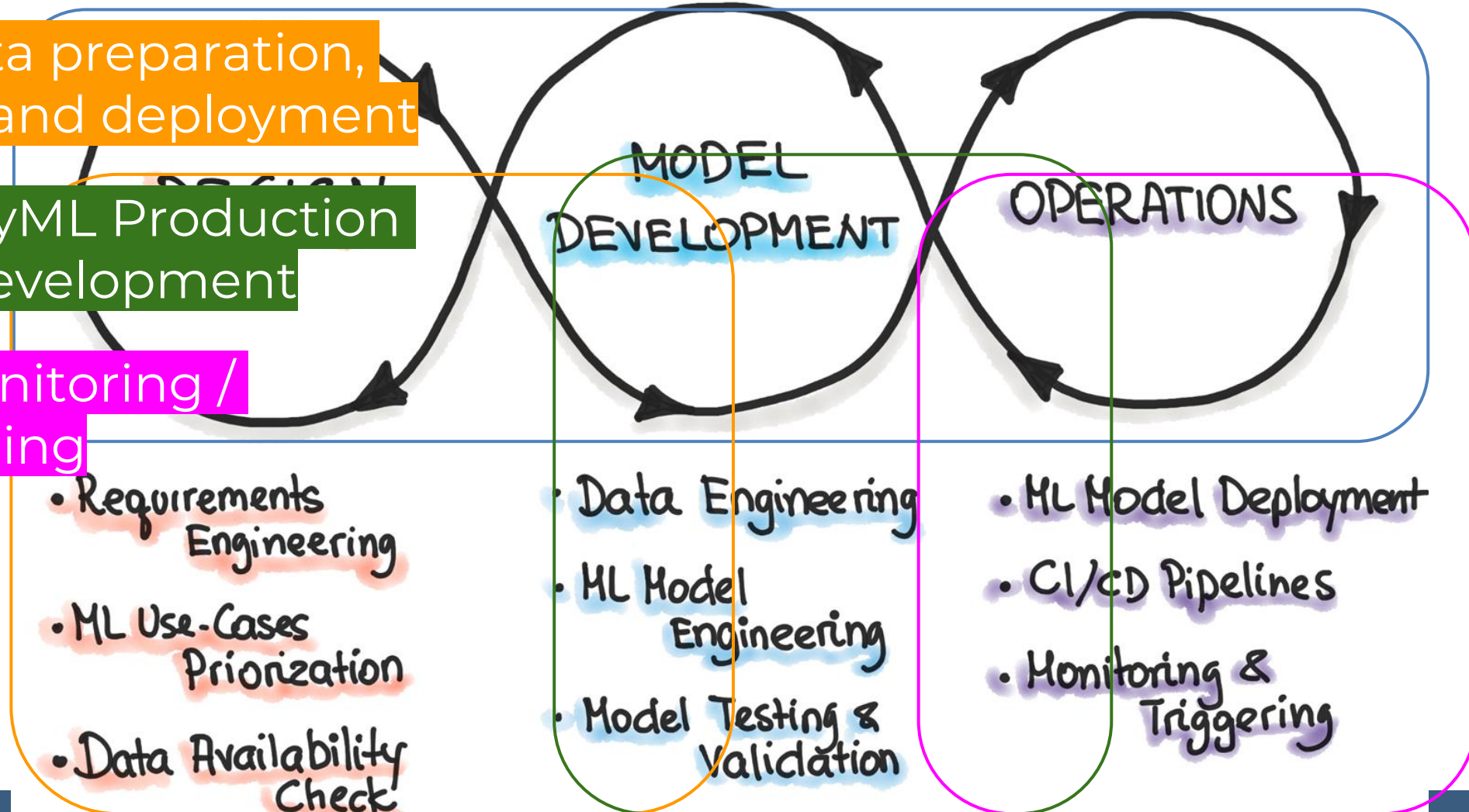
WS1: Introduction to
TinyML & Hardware

MLOps

WS2: Data preparation,
training and deployment

WS3: TinyML Production
model development

WS4: Monitoring /
maintaining





We will be using

- C programming - ESP development tools
- Python, Google Colab / Jupyter Notebooks
- A browser
- Command line tools

T I N Y



November 20 - Introduction to TinyML

[Workshop 1 - IDA København](#)

[Workshop 1 - AU Herning](#)

December 4 - TinyML Data preparation, training and deployment

[Workshop 2 - IDA København](#)

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December 18 - TinyML Production model development

[Workshop 3 - IDA København](#)

[Workshop 3 - AU Herning](#)



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