



## DIMITRIOS DAGDILELIS

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### Profile

Senior AI Research Engineer, deeply hands-on, comfortable working close to real data. Generating innovation and impact by enabling organisations to use AI to solve business problems.

### Previous employment

#### Sr. AI/MLOps Research Engineer

Danish Defence — January 2025

- Multimodal AI, LLMs, VLMs
- Self-supervised learning, Big Data
- Large-scale experimentation, rapid prototyping
- Setup training, deployment, monitoring pipelines, and serve AI models
- Design and deliver scalable AI solutions
- Deliver business value by handling large scale data

#### AI/ML Research Engineer / ShippingLab & GreenHopper Project

Denmark's Technical University — July 2020 - December 2024

- 3D Perception, MLOps pipelines, continuous training and deployment
- Research and Implement machine learning solutions, within a multi-disciplinary team of researchers and engineers
- Deliver the technology that enabled the operation of the first autonomous ferry in Denmark

### Education

#### PhD "Multimodal Sensor Fusion for Cyber-Resilient Navigation"

Denmark's Technical University — July 2020 - December 2024

Heterogeneous multi-view, multimodal, temporal data fusion onboard vessels, Deep Learning and 3D Computer Vision, Transformer models, Anomaly Detection

#### MSc Electrical Engineering "Automation & Robot Technology"

Denmark's Technical University — Sept. 2018 - June 2020

Multimodal Sensor Fusion, maritime navigation systems, multi-object tracking, camera and radar fusion.

### Research interests

Scalable AI, Self-supervised learning, Generative AI, LLMs, VLMs, AudioGen, MovieGen, Multimodal learning

### MLOps stack:

Docker, GitLab, GCP, AWS, MLFlow, FastAPI, HPC, h-base

W&B, Hugging Face, PyTorch, SK-Learn, ClearML, Hydra, FiftyOne, Prometheus, Grafana.

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