# 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. Far from the hype, close to results.

## Previous employment

### Sr. AI/MLOps Research Engineer
Danish Defence  — January 2024

- Multimodal AI, LLMs, VLMs
- Self-supervised learning, Big Data
- Large-scale experimentation, rapid prototyping
- Setup training, deployment, and monitoring of AI/ML 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 2023

- Applied MLOps principles, to manage the development and deployment of the ML S/W stack of an autopilot system.
- Operationalise SOTA Multimodal ML/AI research, in collaboration with a cross-disciplinary team of researchers and engineers
- Research, prototype and deliver perception pipelines 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 2023

Multimodal Data Fusion. Deep Learning and 3D Computer Vision, Transformer Models, Anomaly Detection, GNSS denied navigation.

### MSc Electrical Engineering "Automation & Robot Technology"
Denmark's Technical University — Sept. 2018 - June 2020.

## Research interests

scalable AI, self-supervised learning, computer vision, LLMs, VLMs, multimodal learning

## MLOps stack:

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

PyTorch, langchain, openai, huggingface, sk-learn

W&B, ClearML, Hydra, FiftyOne.

Prometheus, Grafana.