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 2025

- 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 2024

- 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 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.