

# Nazmican CALIK

Munich/Germany | +49 1631356996

nazmican@pm.me

 github |  linkedin



## SUMMARY

Machine Learning Engineer with expertise in computer vision and deep learning, specializing in video generation and 3D data processing. Experienced in developing generative vision models, real-time AI systems, and integrating ML solutions with production environments.

## EXPERIENCE

### VIDLAB7 GMBH - MACHINE LEARNING ENGINEER

06/24-present / Munich

- Designed and deployed an in-house lip-sync pipeline using GANs and transformer models, enabling video generation with high temporal consistency and realistic mouth movements.
- Developed comprehensive dataset collection and cleaning pipeline with image quality assessment and audio sync correction, improving training data quality by 40%.
- Built a real-time responsive AI Agent (24 FPS) with document processing increasing customer engagement by 30%.

### FILICS GMBH - COMPUTER VISION ENGINEER

10/22-06/24 / Munich

- Implemented robust detection and tracking system for multiple load carriers using ML and classical CV, achieving 95% detection accuracy in challenging warehouse environments.
- Integrated computer vision modules with ROS2 for robotics applications, reducing detection and pallet entry time (using SVMs) by 60%.

### DEFIA SOFTWARE - WORKING STUDENT

10/18-07/19 / Istanbul

- Full stack development of a factory tool tracking app with ionic used by 50+ workers, streamlining equipment monitoring.

### MACIO GMBH - INTERN

06/18-10/18 / Kiel

- Developed an embedded OS in C++/Qt for commercial dishwashers, implementing user interface and control systems.
- Designed and implemented a real-time meeting room status tracking system with occupancy detection and booking using JavaScript and React.

## EDUCATION

### TECHNICAL UNIVERSITY OF MUNICH - M.Sc. COMPUTER SCIENCE

2019-2022

- Final Grade: 1.9 (1.0 being highest distinction in German system)
- Specialized in Computer Vision, Machine Learning for 3D Geometry, and Deep Learning.
- Recipient of DAAD Masters Scholarship.

### BOGAZICI UNIVERSITY - B.Sc. COMPUTER ENGINEERING

2015-2019

- Final Grade: 3.4/4.0
- Specialized in Software Engineering and Computer Vision

## SKILLS

<b>PROGRAMMING LANGUAGES</b>	<b>Experienced:</b> Python   C++	<b>Familiar:</b> SQL   Javascript   R
<b>MACHINE LEARNING</b>	PyTorch   Computer Vision   CNNs   GANs   Transformers   MLOps   3D Data   OpenCV	
<b>SOFTWARE DEVELOPMENT</b>	Git   Linux   CI/CD   REST API   GCP   Docker   Wandb   Model Deployment   ROS2	
<b>LANGUAGES</b>	<b>Native:</b> Turkish <b>Fluent:</b> English, German	

## PROJECTS

- **Convolution Augmented Transformers for 3D Data Processing** (PyTorch) - Developed a novel convolutional block for self-attention mechanisms, improving point cloud understanding on ModelNet and ShapeNet datasets.
- **3D Object Part Segmentation using Self-supervised Learning** (PyTorch) - Created a model for object part segmentation using SimCLR and PointNet on ShapeNet, achieving comparable results to supervised approaches.
- **Deep Neural Network Based Action Recognition with Transformers** (PyTorch) - Developed a transformer model to detect actions in Jester, Something Something v2 and Kinetics datasets.

## AWARDS & HACKATHONS

- **DAAD Masters Scholarship Grantee** (2019-2022)
- **Pisano Hackathon 1st Prize** (2018) - Developed backend of a webapp to help users sort their paperwork according to topological order using MongoDB and Express Framework.
- **Accenture Global Hackathon 3rd Prize** (2017) - Developed the frontend and backend of a webapp using AngularJS.