



# Shaikh Mohsin

## ML Engineer

[linkedin.com/in/mohsin-shaikh/shaikh.mohsin@protonmail.com](https://linkedin.com/in/mohsin-shaikh/shaikh.mohsin@protonmail.com)  
D (+49) 176 2686 2906  
[github.com/randomMatrix77](https://github.com/randomMatrix77)

## About Me

I am a diligent ML engineer with experience in computer vision, deep learning and mechatronic systems  
I am skilled in training and evaluating ML models, backend development and containerization

## Work Experience



### R&D Autonomous Systems

STTech GmbH, is a Munich-based startup with expertise in business automation and product development

*May 2021 to Current (2 years, 1 months)*

- Development of multiple AI projects with applications in fields like robotics, business automation, insurance and computer vision
- Contribution to the public research project GAIA-X 4 KI project
- Development of skill-based and UI-based features for the enhancement of an autonomous cleaning robot
- Implementation of process automation with the help of business rules



### Working Student

Hamburg University of Technology

*June 2020 to August 2022 (3 months)*

- Development of Audio-Image Annotation GUI in Python. This tool was used for annotating sections of brake screeching in audio files based on its spectrogram.



### Working Student

Institute of Computational Neuroscience, UKE Hamburg

*August 2019 to January 2020 (6 months)*

- Assistance in training and evaluation of different medical imaging related deep learning models

## Relevant Skills

- **Programming Languages/Tools:**  
Python, Javascript, C/C++, Java, Kotlin, SQL, React, git, bash, AWS, MATLAB, drools, docker, postgres, RViz
- **Frameworks:**  
Pytorch, keras, tensorflow, scikit-learn, huggingface, deepspeed, colossal-ai, langchain, argilla, OpenCV, NumPy, Pandas, ROS, Flask, Kubeflow, springboot, Kogito
- **Experience with Modalities:**  
Images, videos, MRI data, Text & Natural Language, Audio
- **Microcontrollers:**  
Raspberry Pi, Arduino Uno, ESP32 and its compatible accessories like accelerometers, range sensors, etc

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## Education History



### **Master of Science in Mechatronics**

*Institution:* Hamburg University of Technology

*Year of Graduation:* 2020

- *Specialization:* Intelligent Systems and Robotics
- *Master thesis:* Scalability of Bio-Inspired credit assignment systems



### **Bachelor of Engineering in Mechanical Engineering**

*Institution:* Gujarat Technological University

*Year of Graduation:* 2015

- *Bachelor Thesis:* Pneumatic Upper-Body Exoskeleton
- Champion, Robot Dirt Racing, MGITER TechFest 2014

## Publication

### **Skin Lesion Classification Using Ensembles of Multi-Resolution EfficientNets with Meta Data** (arXiv:1910.03910 [cs.CV])

In this paper, we describe our method for the ISIC 2019 Skin Lesion Classification Challenge. On the official test set our method is ranked first for both tasks with a balanced accuracy of 63.6% for task 1 and 63.4% for task 2.

## Extracurricular Activities

### **Film Making**

Workshop for Smartphone assisted filmmaking, TUHH

We had to team up with other participants to create a short film based on current events. We were given 2 hours to shoot and edit the video.

<link>

### **Member**

Institution: Munich Makers Lab e.V

*2022 to Present*

The Munich Maker Lab is a non-profit organization, that supports the do-it-yourself-, hacker-, and maker-culture by providing workspace, tools and infrastructure to our members and everyone else.