




# Mikkel Dolmer

MSc Software Engineering

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 /mikkel-dolmer

## Profile

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A dedicated Software Engineer specialized in Machine Intelligence, with a focus on applying advanced models to solve real-world problems. Skilled in programming and machine learning frameworks, with a strong drive to bridge theoretical knowledge and practical applications. Eager to apply skills in dynamic environments while continuously learning and improving.

## Education

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**Software (MSc in Engineering)** September 2023 - June 2025

Aalborg Universitet - Aalborg

**Software (BSc in Engineering)** September 2020 - June 2023

Aalborg Universitet - Aalborg

**Associate Degree (1st year)** August 2018 - June 2019

West Valley College - Los Gatos, California

**High School** August 2016 - June 2018

Los Gatos High School - Los Gatos, California

## Employment History

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**Student developer** January 2025 - July 2025

ZeBon - Aalborg

- Utilized PHP for backend development involving API integration and database management.
- Worked and collaborated in an agile environment, gaining valuable experience in iterative development and teamwork.

**Warehouse worker** August 2019 - November 2022

Schulstad - Pandrup

**Guest service representative** April 2018 - May 2019

Testarossa Winery - Los Gatos, California

## Professional skills

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Python

C

C++

C#

Java

PHP

Databases

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## Projects

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### Transformer-Based Extraction of Structured Data from Gut-Brain Axis Publications

February 2025 - June 2025

Master's Thesis - AAU

My master's thesis focuses on advancing NLP techniques through the exploration of LLM models. The project involves ensemble learning of BERT models pretrained on biomedical corpora and employs weighted training strategies tailored to different dataset qualities. This research aims to enhance Information Extraction Systems, particularly in the context of biomedical texts related to the gut-brain interplay, aligning with the goals of the GutBrainIE CLEF 2025 challenge. My group and I achieved first place in three out of four tasks in the challenge, granting us the privilege to publish and present our findings at the CLEF 2025 Conference.

• Technologies: Python, Hugging Face, PyTorch, MLflow

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### Relative Welding Formation Assessment Based on Sets of Current and Voltage Data

February 2023 - June 2023

Bachelor's project - AAU

In partnership with Migatronik and their CoWelder system, this project employs data mining and machine learning methods to forecast welding patterns prone to defects. This process involves initial data preprocessing, encompassing data cleaning and feature extraction. The extracted features are subsequently utilized to build a decision tree classifier. This collaboration gave me valuable insights into how AI solutions can be tailored to address specific customer needs and significantly improve efficiency in an industrial workplace.

• Technologies: Python, PyTorch

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### Analysis and Implementation of OCR Tools

January 2025 - July 2025

ZeBon

As part of my student developer role at ZeBon, I was tasked with optimizing the OCR tool used to extract key information, such as prices and dates, from invoices and receipts. To address this, I conducted an evaluation of multiple OCR solutions, including the feasibility of developing an in-house tool to reduce reliance on external providers. The project concluded with the identification of an OCR solution that was more cost-effective, faster, and significantly more accurate than the existing setup.

• Technologies: Python, Hugging Face, PHP, Excel

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## Languages

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Danish

Native

English

Fluent

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