

# Mikkel Buchvardt

Chief Data Scientist, Software Engineer, Naval Officer.

<https://www.linkedin.com/in/mikkelberntbuchvardt/>

## Currently

Chief Data Scientist

## Specialized in

Designing, Building and managing **Intelligent Systems** combining Machine Learning- and Software Engineering process and technologies. Popularly phrased as **MLOps**.

## Research interests

Applied AI, Cloud- and Software Engineering, Inner- and Open Source Culture, Leadership

## Projects

IoT POC

City Data Exchange Proof Of Concept application with Hitachi Consulting and municipality of Copenhagen. REST endpoint integration to smartphone app to infer whether a person is walking, running, biking, driving -car, -bus, or -train based on input from phone sensors.

NER for invoices

Leading a team that applied transformer based NLP algorithms to manually annotated invoice data proved to distinguish well between names, brands, organizations etc.

AI Academy

Onboard a team of data scientist into an existing organization, teach the AI tech stack and set up for success with stakeholders like Product Managers and Architects across the company.

Case summary

An application that can summarize across different documents extracting key phrases using NLP methods TextRank and KeyPhraseExtraction.

## Products

UNSPSC® Classifier

Deep Learning based functionality to hierarchaly label structured and unstructured invoice data into over 60.000 categories. To accommodate speed the application is deployed in k8s.  
Spend Analysis

Auto Accounting

Deep Learning based functionality to automate accounting of invoices in municipalities using supervised learning.  
Easy Payment

## Skills

Software Eng.

Agile, SCRUM, GIT, OOP, UML, Azure Cloud, DevOps, K8s, Docker, Java, SQL, REST API, Kafka, RabbitMQ  
CRISP-DM, MS TDSP, ML, DL, NLP, Time Series, R, Python, Tensorflow, PyTorch

AI

Business

Leadership, Team Management, Documentation, Teaching, Presentation, Business Psychology, Business Process Analysis

## Education

2014-2016

**IT-University, Copenhagen.**

Master Of Science (MSc), Software development and technology

2011-2014

**Copenhagen Business School, Copenhagen**

Bachelor's Degree, Economics and Psychology

2004-2009

**Royal Danish Naval Academy**

Ships Master and Naval Officer

## Occupation

2020-

**KMD, Aarhus**

Chief Data Scientist

2018-2020

**KMD, Aarhus**

Lead Data Scientist

2016-2018

**KMD, Aarhus**

BI Specialist

2015-2016

**Amager Privatskole, Copenhagen**

Teaching Assistant

2011-2015

**Sofie Amalie Gaarden, Frederiksberg**

Substitute Caretaker

2009-2011

**Royal Danish Navy, Greenland & Faroe Islands**

First Lieutenant

2004-2009

**Royal Danish Navy, Danish Waters and Naval Academy**

Cadet