

Pernille Matthews

DATA SCIENTIST · DEVELOPER

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“The answers are all out there, we just need to ask the right questions.” - Oscar Wilde

Summary

Passionate and ambitious Data Scientist with a master's degree in Data Science from the Southern University of Denmark (SDU). Bachelor in Web Development, with specialization in backend development. I believe that Artificial Intelligence will continue to develop the world and assist with overcoming global problems positively. I aim to help advance technology in the right direction and be as helpful as possible to society. Besides this, I enjoy learning new languages, reading books, eating cake and staying active.

Work Experience

Data Scientist

Odense, Denmark

REGION SJÆLLAND - HEALTH DEPARTMENT (DATA AND DEVELOPMENT)

Start October 1

- Research and development of Machine Learning and Explainable Artificial Intelligence within Health Data

Research Assistant

Odense, Denmark

SOUTHERN UNIVERSITY OF DENMARK

August. 2022 - Present

- Researching Explainable Artificial Intelligence in extension to master's project.
- Responsive for creating academic events for Data Science.
- Teaching Assistant in the course: "Digital Humanities".

Self-employed Developer and Data Scientist

Odense, Denmark

PRIME CODING

Jan. 2020 - Present

- Founded a web bureau company working freelance as a full-stack developer, now transitioning into a Data Science company.
- Notable jobs include:
 - Project with University of Copenhagen. Responsible for creating a platform from scratch for educational games aimed at high school students. The platform and games were programmed using Python with frameworks Django and oTree.
 - Project with a company to create a fresh design of a duty schedule using ASP.NET (C).

Data Analyst

Odense, Denmark

OBH RÅDGIVENDE INGENIØRER

Feb. 2020 - Jun. 2022

- Analysis of quantitative data with a focus on solving business-related problems
- Visualisation of data in Excel, Python and PowerBI
- Querying and optimising SQL
- Quality assurance of data for Machine Learning Models
- Design, implementation and test of a Machine Learning Model
- Assisted with analysis and optimisation of existing models

Teaching Assistant

Odense, Denmark

SOUTHERN UNIVERSITY OF DENMARK - IMADA

Sep. 2021 - Jun. 2022

- TA in the course: "Data Mining and Machine Learning".
- TA in the course: "Introduction to Programming for Data Science". Programming in Python.

Teaching Assistant

Kolding, Denmark

INTERNATIONAL BUSINESS ACADEMY (IBA)

Oct.- Nov. 2019

- Tutored a class of new web development students in JavaScript.

Internship as a Full-Stack Developer

Fredericia barracks, Denmark

DANISH MILITARY

Aug. - Nov. 2019

- Internship as a full-stack developer during bachelor degree.
- Developed an evaluation system from scratch.
- The evaluation system digitalised the workflow for the officers in the field to enable evaluation of their students digitally; opposed the current system of hand written unsystematic notes about each of the students.
- The web application used Python with the framework Django and a responsive design.

Full-Stack Developer

Fredericia, Denmark

MIQ

Mar. - Sep. 2019

- Responsible for debugging and adding features to a large PHP web application.
- Hands-on work with chatbot development using tensorflow.

IT Assistant

Gejsing, Denmark

INTERNATIONAL COMMUNICATION

2013-2019

- Assisted in maintaining systems and websites.
- Worked with SEO and Google Ads.
- Responsible for the social media presence on Facebook and LinkedIn together with advertisement.

Education

MSc in Data Science

Odense, Denmark

SOUTHERN UNIVERSITY OF DENMARK (SDU)

Sep. 2020 - Jun. 2022

- Specialization: ICT systems. (Information and communications technology systems)
- Wrote my thesis within the Field of Explainable Artificial Intelligence.

Professional Bachelor in Web Development

Kolding - Denmark

INTERNATIONAL BUSINESS ACADEMY (IBA)

2018-2020

- Specialization: Backend programming.
- Received an extra award for my engagement in class, and commitment to the education.

Academy Profession (AP) degree in Multimedia Design and Communication

Kolding - Denmark

INTERNATIONAL BUSINESS ACADEMY (IBA)

2016-2018

Business Course

Kolding - Denmark

INTERNATIONAL BUSINESS COLLEGE (IBC)

2014-2015

International Baccalaureate (IB) diploma

Kolding - Denmark

KOLDING GYMNASIUM (KG)

2010-2013

Skills

Data Science	Machine Learning, Deep Learning, (Multivariate) Statistical Analysis
Programming	Python (Pandas, NumPy, Scikit-learn, Keras), JavaScript, R, Java, PHP, Node.js
Visualisation Tools	Dash and Plotly.js (in Python), D3.js, PowerBI
Development Tools	Git, Arch Linux, Emacs, LaTeX, PowerBI, JetBrains IDEs, Spyder
Back-end	Django, Express, AJAX
Databases	SQL, NoSQL, REST, GraphQL, JSON, XML
Front-end	React.js, Gatsby.js, HTML5, LESS, SASS, Bootstrap, Grid, FlexBox
Prototyping	Figma, Adobe XD, Illustrator, InDesign
Languages	English (<i>native speaker</i>), Danish (<i>native speaker</i>), German (<i>basic comprehension</i>), Mandarin (<i>currently learning</i>)

Extracurricular Activity

Leaders of Tomorrow (IDA X SDU)

Odense, Denmark

IDA (DANISH SOCIETY OF ENGINEERS)

Apr. 23rd, 2022

- Participated in a 1-day event, designed to help develop leadership skills and networking.
- The event included exercises (person and networking), a keynote and last a special presentation from Bastian Overgaard.

Future STEM Leaders

Copenhagen, Denmark

IDA (DANISH SOCIETY OF ENGINEERS)

Sep. 2021 - Nov. 2021

- Accepted and participated in a course called "Future STEM Leaders" which took place over 2 days on three separate weekends in Copenhagen
- The course was aimed at ambitious young people in STEM, who are interested in self-development and leadership.

Presentation

LEipzig symposium on Visualization In Applications (LEVIA'22)

Leipzig, Germany

PRESENTATION AT LEVIA 2022 WORKSHOP

Apr. 2022

- Presentation of a visualisation project and paper: Danish Companies Dashboard (DCD).