

Jonas-Mika Senghaas

2300, Copenhagen S

+45 70 74 04 77

✉ mail@jonassenghaas.de

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Summary

Aspiring data scientist studying at the IT University of Copenhagen. Eager to learn. Comprehends mathematical concepts and new contents fast. Enjoys cognitive challenges, algorithmic problem solving and conveying knowledge. Seeks to grow further as a person, teaching assistant and data scientist by taking on the challenge of being a teaching assistant in new courses next semester.

Education

2020–2023 **BSc. Data Science**, *IT University Copenhagen*, Copenhagen.

2011–2019 **Upper Secondary Degree (Allgemeine Hochschulreife/ Abitur)**, *Gymnasium Rissen*, Hamburg, GDA: 1.0 (Danish Scala: 12.0).

Recent Projects

Current **Intelligent Recommendation System from Bipartite Network**, *ITU*.

As part of the course *Network Analysis* we are building a recommendation system that is based on bipartite network data by projecting the network on a single set of nodes. The project is built in Python and heavily based on the *networkx* library. Some tools of networks analysis this project involves are bipartite network data exploration, network data cleaning, bipartite projections, network sampling, network backboning and data visualisation.

Summer 2021 **Frontend Webdevelopment**, *Tanja Senghaas Designs*, Website.

I have used parts of my summer breaks to deepen my knowledge in frontend webdevelopment and learned the modern Javascript framework React.js, with the motivation of being able to build stunning websites and apps through a single framework. I have built a personal portfolio website that is visible [here](#).

Spring 2021 **First Year Projects**, *ITU*, GitHub.

The course *First Year Project* within the second semester consisted of four data science projects. In these projects we learned to collaboratively work in different fields of data science, such as statistical analysis, data visualisation, computer vision (machine learning) and natural language processing. The source code and reports of the projects are all visible at my personal GitHub page

Work Experience

08/2021– **Teaching Assistant**, *IT University of Copenhagen*, Copenhagen.

Today Teaching Assistant at IT University of Copenhagen in fall semester 2021 in the course *Introduction to Data Science and Programming* for first-year BSc Data Science students.

08/2021– **Student Ambassador**, *IT University of Copenhagen*, Copenhagen.

Today As a student ambassador I am part of the program *Studerende for en dag*, where I take high school students with me on a day at ITU.

09/2020– **Apartment and Project Management in Airbnb Business**, *Chrome Bach Housing*, Copenhagen.

Today Part-time student job of managing long-term housing and short-term bookings over Airbnb in four apartments in Copenhagen NV and Frederiksberg

2014–2020 **Player in 1. Youth Bundesliga**, *FC St. Pauli*, Hamburg.

Sought career in professional football at the football club St. Pauli for more than six years. My long path in competitive sports has shaped me significantly - my team spirit, determination and ambitious character resulted from it.

Volunteer Experience

09/2021– **Barista**, *Cafe Analog*, Copenhagen.

Today With great excitement I have joined the lovely organisation *Cafe Analog* at my university and since then served coffee at my university as part of a lovely team.

Languages

German Native

English Fluent

Danish Basic

TOEFL Score: 118/120, C1 - Advanced Level

Learning at UCPlus, Module 3 passed in August 2021

Skills

Python Main Language (*Profound in DS Packages: NumPy, Pandas, Matplotlib, Seaborn, SciKit-Learn, Pytorch, NetworkX, ...*)

Anaconda Managing Python Packages and Virtual Environment

R Statistical Analysis, mostly in *RStudio*

C++ Competitive Programming Language

HTML, CSS, Self-taught knowledge in Frontend-Webdevelopment

Javascript,
React.js

Collaboration Git (GitHub, GitLab), Jupyter Notebook, Google Collab, Deepnote