



Niklas Muennighoff • 孟念

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\*July 27<sup>th</sup>, 2000

## Education

**Peking University**, Bachelor,  
Beijing/Singapore/Paris,  
09/2018 – 06/2022

- Computer Science & Finance
- Double-degree with ESSEC - Rank: 1/478
- PKU Future Leaders Full Scholarship
- [Reference Letter](#)

**Harvard University**, Pre-  
College Program, Boston  
07/2017 – 08/2017

- Astrophysics program on  
formation & evolution of  
stars & habitable exoplanets
- [Reference Letter](#)

**Luitpold Gymnasium**, High  
School, Munich/Brisbane  
10/2010 – 06/2018

- German Abitur: 1.1 (Top 1%)
- DMV Mathematics Award
- Elected Stud. Rep. of central  
Munich for 40,000 students
- [Reference Letter](#)

## Projects

**Hateful Memes Competition, Facebook AI**, 05/2020 – 11/2020

- 2<sup>nd</sup> out of 3,600 participants (25,000 USD); Presented solution at NeurIPS 2020
- Built 83.1% accurate visio-linguistic (Vision+NLP) ML Model classifying hatefulness of memes
- Code: <https://ai.facebook.com/blog/hateful-memes-challenge-winners/>

**Front & backend development, Whitewalls Real Estate**, 01/2020 – Present

- Redesigned real estate sales website raising MAU to 28% of viewers from 10.7% with Flask & HTML
- Deployed website & built backend using AWS EC2, AWS Route 53, MariaDB
- Code: <https://whitewallsibiza.com/>

**Deep Learning Nanodegree, Udacity**, Graduated in 05/2020

- Deployed 85% accurate Sentiment Analysis model with Flask & AWS SageMaker
- Built GAN model to generate fake celebrity faces & automatic TV-Script Generator
- Code: <https://github.com/Muennighoff/UdacityDL>

## Experience

**ML Intern, Wecredo (Beijing AI Startup)**, Remote, 12/2020 - 04/2021

- Set up concurrent pipeline to clean & tokenize 30GB of Chinese Language Data on 32 cloud cores
- Trained Chinese language transformer able to processes 400% more inputs/run than previous model
- Code: <https://github.com/Muennighoff/wecredo>

**Data Science Intern, JAXA (Japan Space Agency)**, Sagamihara, 07/2019 – 08/2019

- Built regression model to predict distance of water rockets with 0.72 R-squared
- Lead organization of water rocket competition with 8 participating high schools
- Reference Letter: [https://github.com/Muennighoff/References/blob/main/JAXA\\_reference.pdf](https://github.com/Muennighoff/References/blob/main/JAXA_reference.pdf)

**TAS Analytics Intern, Ernst & Young**, Tokyo, 05/2019 - 06/2019

- Created spatial analytics framework with Alteryx covering 350,000 sqkm in Japan
- Helped apply the framework to 4 analytics cases yielding time savings of up to 10%
- Reference Letter : [https://github.com/Muennighoff/References/blob/main/EY\\_reference.pdf](https://github.com/Muennighoff/References/blob/main/EY_reference.pdf)

## Skills

- **Python, C** – Multi-threaded, concurrent coding; Machine Learning with PyTorch, TensorFlow & Keras, Pandas, Scikit
- **Alteryx, R** - Data Insights
- **HTML, (S)CSS, MSOffice, LaTeX** - Websites & Visualizations

## Languages

- **Chinese** – [HSK6](#) – Intermed.
- **Japanese** – [JLPTN1](#) – Fluent
- **English** – [TOEFL117](#) – Fluent
- **German** – Native

## Interests

- Amazing Thailand Bangkok Marathon 2020
- Climbed Mt Fuji 3800m, 2017
- 1st place Track & Field Championship Munich 2016