



Niklas Muennighoff • 孟念

Machine Learning Engineer

I am a double degree student at Peking University in Computer Science & Finance. Building intelligent systems and interacting with them is my passion. I am production-focused. I am quick to drop projects that don't add business value. I want to join a tech leader and with a great team shape our future.



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*July 27th, 2000

Education

Peking University, Bachelor,
Beijing/Singapore/Paris
September 2018 – June 2022

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

Harvard University, Pre-
College Program, Boston
July 2017 – August 2017

- Astrophysics program on detection & formation of stars using modern tools
- [Reference Letter](#)

Luitpold Gymnasium, High
School, Munich/Brisbane
August 2010 – June 2018

- Scientific Track
- DMV Mathematics Award
- Abitur Grade: 1.1 (Top 1%)
- [Reference Letter](#)

Projects

Hateful Memes Competition, Facebook AI, May 2020 - November 2020

- Built Visio-linguistic (Vision+NLP) ML Models to determine hatefulness of Internet Memes
- 2nd out of 3,600 participants (25,000 USD); Presented solution at NeurIPS 2020
- Code: <https://ai.facebook.com/blog/hateful-memes-challenge-winners/>

Front & backend development, Whitewalls Real Estate, January 2020 – Present

- Built a real estate sales website for the companies branch in Spain using PHP, HTML & CSS
- Deployed the website & built the backend using MariaDB, AWS EC2, AWS Route 53
- Code: <https://whitewallsibiza.com/>

Deep Learning Nanodegree, Udacity, Graduated in May 2020

- Built generation models such as a GAN to generate fake celebrity faces; a TV-Script text generator
- Deployed Sentiment Analysis model & XGBoost models with AWS SageMaker & AWS EC2
- Code: <https://github.com/Muennighoff/UdacityDL>

Experience

Machine Learning Intern, Wecred 众微科技, Remote, December 2020 – March 2021

- Building a Chinese Language Model based on the transformer architecture for loan classification
- Training & Deploying the model using data parallelism with Google Cloud TPUs & TensorFlow

Data Science Intern, JAXA, Sagami-hara 相模原市, July 2019 - August 2019

- Built predictive models for landing points of water rockets based on inputs such as weight, weather
- Helped hosting a water rocket competition on campus to collect data & validate regression results
- Reference Letter: https://github.com/Muennighoff/References/blob/main/JAXA_reference.pdf

TAS Analytics Intern, Ernst & Young, Tokyo 东京, May 2019 - June 2019

- Built a reusable data framework with Alteryx for any location analytics project in Japan
- Applied the framework in 4 different scenarios driving down costs by up to 10%
- Reference Letter : https://github.com/Muennighoff/References/blob/main/EY_reference.pdf

Skills

- **Python** - Full-stack Machine Learning with PyTorch, TensorFlow & Keras, PaddlePaddle, Pandas, Scikit
- **R, SQL, Alteryx** - Data Insights
- **C** - Memory-optimized coding
- **HTML, (S)CSS, MSOffice, LaTeX** - Websites & Visualizations

Languages

- **Chinese** – HSK5 – Intermed.
- **Japanese** – JLPTN1 – Fluent
- **French** – C2 – Fluent
- **English** – TOEFL117 – Fluent
- **German** – Native

Interests

- Amazing Thailand Bangkok Marathon 2020
- 1st place Track & Field Championship Munich 2016