Personal Information

- Pie de Boer
- 17 December 1996
- Maastricht, The Netherlands
- Dutch

Pie de Boer

Graduate - Data Science and Artificial Intelligence (BSc)

Enthusiastic and creative graduate from Maastricht University with a strong interest in machine learning, signal processing, and generative AI. I possess excellent interpersonal skills and a solid technical mindset, thriving in both collaborative settings and individual research projects. In my spare time, I explore computer topics such as virtual machines, emulators, and Linux, delve into audio engineering, and engage in strength training.

Contact

- Berlin, Germany
- +31618928452
- piedeboer96@gmail.com
- https://piedeboer96.github.io

References

Dr. Prof. Pietro Bonizzi
Associate Professor
Maastricht University
pietro.bonizzi@maastrichuniversity.nl

P. Bonizzi was my thesis supervisor

Competences

Programming Languages
Java, Python, MATLAB, C++, Clojure, R, SQL, Bash

Stack
Google Cloud, Git, Unix, PyTorch, TensorFlow, Jupyter Notebook, Scikit-Learn, Homebrew and more.

Soft Skills
Presenting, Team Work, Gannt Chart

Group Projects

- 3D Bin Packing
- Golf Simulator 3D
- Chess Engine
- Multi Modal Assistant (Text, Speech and Vision)

Education

■ **Data Science and Artificial Intelligence**
Maastricht University, Maastricht | 2021 - 2024
Completed (180 ECTS)

Thesis: Conditional Diffusion Models for ECG Signal Denoising (8.5/10.0)
~ Trained using Google Cloud and PyTorch
~ Outperforming traditional signal processing methods found in MATLAB.

GPA: 8.28/10.0

■ **Chemistry**
Utrecht University, Utrecht | 2016 - 2017
Completed first year (60 ECTS)
GPA: 7.48/10.0

■ **VWO - Atheneum**
Bonnefantencollege HAVO/VWO, Maastricht | 2009 - 2016
Profile: Nature & Technology and Nature & Health

Experience

■ **Rabobank**
Research Project | 2023 - 2024
Completed a six-month research project on a quantum approach to portfolio optimization. Utilized Python and the D-Wave API to interface with actual quantum hardware. Maintained weekly communication with a senior data scientist and closely collaborated with a researcher from TNO.

■ **Self-Employed**
Mathematics, Physics and Chemistry Tutor | 2019 - 2023
Tutored Dutch high school students in core science subjects from HAVO 3 to final exams, assisting up to seven students per week during peak times.

Additional Skills

✔ **English (C2) - German (B2) - Dutch (Native)**

✔ **MATLAB Fundamentals Certificate**