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
- https://www.linkedin.com/in/pie-de-boer-6b6663265/
- https://github.com/piedeboer96

Competences

Programming Languages
(Advanced): Python, Java, MATLAB
(Intermediate): C++, Clojure, R, SQL, Bash

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

Group Projects

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

Highlighted Courses

- Machine Learning
- Data Analysis
- Probability and Statistics
- Mathematical Modeling
- Image & Video Processing
- Quantum Computing
- Robotics & Embedded Systems

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 (C1) - German (B2) - Dutch (Native)**
- **MATLAB Fundamentals Certificate**