Personal Information

- Pie de Boer
- 17 December 1996
- Maastricht
- Dutch

Pie de Boer

Graduate - Data Science and Artificial Intelligence (BSc)

Contact

- 10715, Berlin
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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.

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
- Mathematical Modeling
- Numerical Mathematics
- Data Analysis
- Robotics and Embedded Systems
- Simulation and Statistical Analysis

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 on 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 (& Maastricht University)
Research Project | 2023 - 2024
Half year research project where I was responsible for improving the quantum approach for their portfolio optimization using Python and D-Wave API working with actual quantum hardware. Weekly contact with senior data scientist and close contact with previous researcher from TNO.

Self-Employed
Mathematics, Physics and Chemistry Tutor | 2019 - Present
Tutored Dutch high school students in core science topics, from HAVO 3 to final exam classes. At peak times, assisted up to seven students per week.

Additional Skills

- **English (C1) - German (B2) - Dutch (Native)**
- **Matlab Fundamentals Certificate**