STANISŁAW MARCINIAK

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ABOUT ME

I am a fourth-year university student at the Lodz University of Technology. I love mathematics and working with data, which is why I'm looking for my first professional experience as a ML Engineer. I want to broaden my horizons by gaining practical knowledge. I'm particularly interested in artificial intelligence and machine learning – I'm fascinated by how these technologies can solve real-world problems.

PROJECTS

AC OPTIMAL POWER FLOW   GitHub

- Developed neural network to solve AC Optimal Power Flow problems for electrical power grids
- Trained on PJM 5-bus network dataset with 10,000 load profiles and optimal solutions
- Achieved 500x speed improvement (0.001s vs 0.5s) compared to traditional optimization solvers
- Evaluated performance using optimality gap and constraint violation metrics
- Technologies: Python, PyTorch, PyPower, NumPy, Pandas

HOUSING PRICE PREDICTION   GitHub   Demo

Linear Regression Model Predicting House Prices in Boston Based on Historical Data

- Developed an endpoint to predict house prices using the classic Boston Housing dataset
- Trained a linear regression model using features such as crime rate, number of rooms, and access to public transport
- Performed data analysis (EDA), feature standardization, and model evaluation (R^2 = 0.711)
- Serialized the model and scalers, and deployed the application (Docker + Render)
- Technologies: Python, Flask, scikit-learn, Docker, HTML/CSS

EXPERIENCE

FULLSTACK DEVELOPER (INTERNSHIP)

Jobsdoor (Jul 2024 – Oct 2024)

- Developed and enhanced features of a job portal — from simple UI components (e.g., banners) to key modules like the pricing page
- Implemented automatic translations for the website and admin panel (articles and dynamic content)
- Worked with technologies: TypeScript, React, Go, PostgreSQL, Docker

AUTOMATION DEVELOPER

Jidoka (Feb 2024 – Jul 2024)

- Automated LinkedIn and email messaging campaigns using Python and JavaScript scripts
- Wrote web scraping scripts with Python libraries such as BeautifulSoup and requests
- Developed a Python/JavaScript script that, given person names and company domains, locates and validates email addresses
- Worked in a team following the Scrum methodology

SKILLS

PROGRAMMING LANGUAGES

- Python
- SQL
- Javascript
- Typescript
- HTML
- CSS

TOOLS

- Git
- Docker
- Jupyter Notebook
- AWS
- Linux

EDUCATION

LODZ UNIVERSITY OF TECHNOLOGY

Information Technology (English-taught)
Oct 2022 - present

THE HAGUE UNIVERSITY OF APPLIED SCIENCES

Becoming the next successful online start-up (Erasmus exchange)
Feb 2025 - Jul 2025

ACHIEVEMENTS

- Collabothon 2024 – 1st Place
  Project: Widget for corporate banking clients
- Hack na Zdrowie 2 – 1st Place
  Project: Onboarding platform with AI chat
- BizOn – 1st Place
  Project: App for improving employee wellbeing
- 2× Rector's Scholarship – Financial award for the top 10% of students

FINISHED COURSES

- Neural Networks and Deep Learning
- Hyperparameter Tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks

LANGUAGES

- Polish – Native
- English – C1