

# Piotr Kitłowski

+48 608 688 900  
piotr.kitlowski@gmail.com  
github.com/cncPomper  
kaggle.com/piotrkitowski  
linkedin.com/in/piotr-kitlowski  
leetcode.com/u/pkitlo/  
hackerrank.com/profile/piotr\_kitlowski

## EXPERIENCE

### SzybkieSkladki.pl

Fullstack Engineer

Warsaw, Poland

December 2023 - present

- Developed a module for events (front-end and back-end) and database using PHP Laravel.
- Implemented an LLM-based text extraction engine to parse unstructured bank transfer descriptions, significantly improving the automation of payment categorization.
- Monitored and maintained the ML pipeline for automated accruals matching, ensuring high data integrity and consistent prediction accuracy.
- Managing DB MariaDB and optimizing queries for high-volume financial data.

### ML in PL

Finance Officer

Warsaw, Poland

December 2022 - present

Teaching Assistant

November 2022

Volunteer

October 2022 - November 2022

- In my role, I prepared invoices for conference sponsors and managed financial transactions for the entire organization as part of the finance team
- Additionally, I assisted course participants in earning their NVIDIA DL certificates
- I also volunteered at the MLinPL 2022 conference, the largest machine learning conference in Poland

### Artificial Intelligence Science Association “Golem”

Treasurer

Warsaw, Poland

October 2020 - September 2024

- Led fundraising efforts to sponsor Society members' participation in AI competitions
- Coordinated budgets for member merchandise, including T-shirts, stickers, and roll-up banners (FPU 2023)

### OLX Group

Data Science Intern

Warsaw, Poland

July 2022 - January 2023

- I conducted A/B test report data preprocessing in Python and performed data analysis to support decision-making for the team manager
- Additionally, I developed an unsupervised ensemble model in Python for anomaly detection in time series tracking data, enhancing detection accuracy and providing relevant contextual insights

### 2Take.it

Junior Data Scientist

Remote

September 2020 - January 2021

- I refactored Python code to optimize data preprocessing pipelines

## ACHIEVEMENTS

### 1st Polish Senior Championship in waterpolo

2021, 2023-2025

- Secured the National Championship title with Nekera AZS UW Waterpolo
- Achieved sustained competitive excellence, winning the league across three non-consecutive seasons

### Rector's scholarship for exceptional achievements

February 2024 - September 2024

- The rector's scholarship is a benefit that awards the best students of a given year of a given field of study

### 3rd place at the ai games 2022 competition – airplanes trajectory prediction

November 2022

- The goal of the task is to predict as accurately as possible the trajectory of aircraft flying in us airspace based on flight plans and weather conditions

### Rector's scholarship for exceptional achievements

October 2021 - September 2022

- The rector's scholarship is a benefit that awards the best students of a given year of a given field of study

### 54th place out of 2060 teams in a NLP competition - top 3%

December 2021 - March 2022

- This competition aims to build NLP models for detecting argumentative structures in student essays to enhance automated writing feedback

## Passed CRC Stream – risk model management a course run by ING Hubs Poland

March 2024 - May 2024

- I have a basic understanding of credit risk principles and experience in market risk modeling

## SKILLS

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### Engineering

- **Coding** - Python, Bash, SQL, Javascript, PHP, C#
- **Libraries** - Numpy, Pandas, PyTorch, transformers, Matplotlib, Scikit-learn
- **Infrastructure** - Git, Linux, Terraform, Kafka, Flink, Docker, GCP
- **Databases** - PostgreSQL, SQLite, MariaDB
- **Technical Skills** - LLM, Chroma, LlamaIndex, MCP, LangChain, Ragas, SpaCy, Hugging Face Transformers, Vector Embeddings, GenAI, Algorithms and data structures, Object-oriented programming, Relational databases
- **Mathematics and Computational Skills** - Mathematical analysis, Linear algebra and geometry, Discrete mathematics, Probability theory and statistics, Computational complexity

### General

- **Language Skills** - Fluent in English, Polish as native language

## MY PROJECTS

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- *LLM/RAG project* - Chatbot
- *ML project* - Predicting Loan Payback
- *NLP project* - Food Hazard Detection
- *AI project* - AI Development Tools
- *Data engineering project* - Covid-19 impact dashboard
- *Data engineering project* - Simulate transactions and classification anomalies
- *Audio classification project* - music cover identification

## EDUCATION

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### Warsaw University of Technology

*Bachelor's and ongoing Master's degree in Computer Science*

2019–2026

- Bachelor's degree - thesis topic: Comparing the performance of different time series forecasting models on stock market data (2019–2023)
- Master's degree - thesis topic: Recognition of synthetic audio materials (2024–2026) ongoing

## HOBBY

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- I am interested in the domain of Data Science, Machine Learning and Deep Learning
- In my free time, I take part in competitions on Kaggle.com or in hackathons with my colleagues from the “Golem” association, where I verify my skills and broaden my knowledge. I am also interested in front-end programming
- I have been practicing waterpolo for 15 years. Additionally, I have been coaching younger players in waterpolo.