

# Georgi Trevnenski

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## Education

📅 09/2022 – 12/2024 📍 DELFT, NETHERLANDS

### Computer Science and AI Technology - Bioinformatics track | MSc TU Delft

- Relevant Coursework:
  - Machine learning
  - Deep Learning
  - Introduction to Molecular Biology
  - Machine Learning for Bioinformatics
  - Evolutionary algorithms

📅 09/2018 – 02/2022 📍 DELFT, NETHERLANDS

### Computer Science and Engineering | BSc TU Delft

- Data Science Track

## Work experience

📅 03/2025 – PRESENT 📍 AMSTERDAM, NETHERLANDS

### Machine Learning Engineer Conpend

- Achieved over **90%** test accuracy and **100%** precision with a simple yet robust pipeline for detecting terms-and-conditions pages in documents using image processing and logistic regression, reducing processing time by **~1 s per page**.
- Built a lightweight **MLP document classifier** using OCR-derived features, with SHAP-based explainability. **Containerized and deployed** the model with Docker, replacing the previous rule-based logic.
- Worked on a LayoutLM-based pipeline for field extraction, handling data preprocessing, fine-tuning, and output post-processing, providing a lightweight in-house alternative to LLMs
- Technologies used: Python, PyTorch, Keras, Natural Language Processing (NLP), ZenML, Docker, C#, SQL

📅 09/2023 – 02/2025 📍 AMSTERDAM, NETHERLANDS

### Machine Learning Engineer Part-Time Conpend

Joined Conpend while completing my university degree, effectively combining a **24 hr/week** job with my academic schedule.

📅 03/2022 – 08/2022 📍 LISBON, PORTUGAL

### Full-Stack developer Sensefinity

- Worked on a cloud-based microservices platform to monitor IoT sensors in supply chains
- Implemented geofencing functionality, allowing clients to define zones on a map and receive alerts

## Work experience

when sensors leave these areas

- Technologies used: Go, React.js, Python, Kubernetes

📅 07/2020 – 09/2020 📍 DELFT, NETHERLANDS

### Junior Software Engineer TJIP

- Contributed to the development of ABN AMRO's online mortgage platform
- Developed backend features and integrated them with the frontend
- Set up authentication through OpenID Connect
- Technologies used: C#, Vue.js, Event sourcing, IdentityServer4, Domain-driven design

📅 11/2019 – 05/2020 📍 DELFT, NETHERLANDS

### Teaching assistant TU Delft

- Responsible for the courses: Calculus, Web and Database Technologies, Information and Data Management
- Graded assignments and exams

## Projects

📅 03/2024 – 12/2025 📍 DELFT, NETHERLANDS

### Multi-modal prediction of enzyme-substrate interactions - MSc Thesis at TU Delft

- Successfully integrated graph protein data into a pre-trained multimodal transformer for protein-molecule interaction prediction, **improving upon the state-of-the-art** algorithm by boosting performance on rare substrates and enhancing generalization to unseen molecules
- Technologies used: PyTorch, XGBoost

📅 09/2023 – 11/2023 📍 DELFT, NETHERLANDS

### Transformer-based Lane Detection - TU Delft

- Interdisciplinary Computer Vision project
- Investigated feature extraction methods and adapted a Masked Autoencoder to extract lane-specific features for a transformer-based lane detection pipeline

📅 11/2020 – 10/2021 📍 DELFT, NETHERLANDS

### Machine Learning Engineer Student AI Team Epoch

- I was a member of the first year of TU Delft's AI team, taking part into Kaggle challenges.
- Contributed to a single-cell protein localization challenge by implementing Grad-CAM to identify the regions responsible for CNN predictions, allowing for labeling of individual cells.