

Yolina Yordanova

Rotterdam, NL yolinab@gmail.com yolinayordanova.com github.com/yolinab linkedin.com/in/yolina-yordanova

MSc student in Data Science & AI at TU Delft, with a BSc in Computer Science from the University of Twente. Experience deploying AI and optimisation tools in industry, interpretability research, and founding a startup. Interested in machine learning, AI safety and human-centred AI.

Education	MSc Data Science & AI Technology Delft University of Technology Specialisations: Advanced Machine Learning, Human-Centered AI.	Sep 2025 – present
	BSc Technical Computer Science University of Twente Thesis: Web Infrastructure Electricity Consumption. Pre-master in Industrial Engineering & Management; minor in Energy Transition & Renewable Energy.	Sep 2021 – Jun 2025
Experience	Student Assistant 4TU.ResearchData Communication for the open research-data repository of the Dutch technical universities.	Sep 2026 – present
	AI Consultant, part-time Edelman B.V., Reeuwijk - Owned AI, optimisation and automation projects end to end, through deployment and handover. - Automated B-Corp recertification reporting and built internal HR workflow tools. - Designed and led AI workshops across departments; wrote an internal newsletter on safe AI use.	Sep 2025 – Sep 2026
	External Affairs RISE Student Rocketry Team, University of Twente Partnerships, sponsors and external communication for a 40+ member engineering team.	Dec 2024 – Jul 2025
	Full-Stack Developer Earn It, Enschede Database design and backend for a student job platform (Java, PostgreSQL, REST), team of five.	Apr – Jul 2022
Research & projects	Causal Abstraction of Neural Networks: Arithmetic Extension TU Delft, team of 7 - Reproduced Geiger et al. (2021) on MQNLI and extended it to an arithmetic task with a known causal model, testing whether BERT represents $x \pm y$ before deciding its sign. - Owned the BERT model and training pipeline; fixed tokenisation of negative numbers, raising test accuracy from 0.88 to 0.995. - Co-identified a structural limitation of the setup and its fix. Under assessment for publication.	2026
	Clear Ahead Labs Founder - Privacy-first estimation of cognitive strain from behavioural work signals (typing rhythm, task switching, recovery after interruptions). - Built and open-sourced the signal-capture layer; interviewed 11 potential users and buyers, which led to a privacy-preserving B2B model. Presented at a startup impact contest.	Dec 2025 – present
	Container Load Optimizer Edelman B.V. Constraint-programming model (CPMpy / CP-SAT) for allocating pallets across containers under length, weight, stacking and door-height rules, reduced from 3-D to 1-D to solve in seconds. Post-solve validator with 14 checks. Deployed as a FastAPI web app on Render.	2026
	Other projects Vase Volume Prediction (Edelman): computer-vision pipeline predicting the volume of irregular 3-D objects from multi-view images, with OpenCV, VLMs and regression models. Smart Construction Sites Platform (BSc graduation project, ECOLOGIC Research): full-stack platform for construction-site sensor data (Angular, Node.js, Django, PostgreSQL).	2024 – 2026
Skills	ML / AI	PyTorch, Hugging Face Transformers, causal abstraction and interchange interventions, causal inference, Bayesian ML, computer vision (OpenCV), LLMs and VLMs, constraint programming (CPMpy, OR-Tools)
	Programming	Python (primary), Java, JavaScript / TypeScript, SQL, Haskell, C#
	Engineering	Git, REST APIs, FastAPI, Django, Node.js, React, Next.js, Angular, PostgreSQL, Supabase, Render, Agile / Scrum
	Languages	Bulgarian (native), English (fluent), Dutch (A2)