

Berke Aslan

✉ work@berkeaslan.com 🌐 berkeaslan.com 🔗 linkedin.com/in/berkeaslan 🐙 github.com/berkeaslan

Education

- MSc University of Groningen**, Econometrics, Operations Research and Actuarial Studies Groningen, Netherlands
Sept 2024 – Aug 2025
- Profile: **Operations Research** with an emphasis on mathematical optimization and machine learning (ML)
 - Thesis: Developed a novel method using Bézier curves for optical waveguide routing in photonic integrated circuits, demonstrating improved performance over existing methods for crossing-free topologies
 - Relevant Projects: (1) Achieved the best result in years on an electric vehicle routing problem using adaptive large neighborhood search on the Hábrók high performance computing cluster. (2) [Implemented AlexNet from scratch](#) and trained on the Tiny ImageNet dataset.
- BSc University of Groningen**, Econometrics and Operations Research Groningen, Netherlands
Sept 2019 – Aug 2024
- Thesis: Evaluated Differentially Private Generative Adversarial Networks for synthetic data generation, measuring utility against privacy budget constraints
 - Extracurriculars: Served as year representative and participated in committees at VESTING (econometrics study association), FSG (finance study association, Dutch Banking Tour 22/23), and G.S.R. 'Aegir' (rowing association)

Experience

- Student Consultancy Group**, Strategic Technical Advisor Groningen, Netherlands
Aug 2025 – Dec 2025
5 months
- Short-term consulting engagement (by design) advising Dutch cultural institutions on cloud migration strategy, generating €50K+ in annual savings
- De Bezwaarfabriek**, Co-founder & AI Engineer Groningen, Netherlands
Sept 2023 – Aug 2025
1 year 9 months
- Co-founded a legal-tech startup that automated traffic fine appeals using large language models (LLMs), reducing processing time from ~2 hours to under 5 minutes
 - Engineered an AI pipeline that automated the full appeals workflow from ingestion to submission, combining multimodal LLMs for document extraction with fine-tuned LLMs and retrieval-augmented generation (RAG) for drafting
 - Discontinued due to lengthy appeal and payout procedures at the Public Prosecution Service
 - Featured in Dutch media including [De Telegraaf](#) and [NL Times](#), and on the [Legal Tech Map](#)
- Kantar**, Data Analyst Groningen, Netherlands
Sept 2022 – Nov 2023
1 year 3 months
- Delivered data analyses and dashboards to Fortune 500 companies and major Dutch brands
 - Built an audio recognition system based on Shazam's fingerprinting algorithm to identify ads in audio streams
 - Laid the groundwork for integrating LLMs into existing analytics processes
- Data Analytics Team**, Data Scientist & Project Leader Groningen, Netherlands
Jan 2022 – Mar 2023
1 year 2 months
- Through VESTING, developed custom warehouse simulations to optimize order fulfillment and placement strategies for logistics (approx. €2.4 billion group revenue) and e-commerce (approx. €520 million revenue) companies

Projects

- [Mediaverzoek.nl](#) Apr 2026 – present
- AI tool that guides homeowners through capturing professional property photos using floor plan analysis and real-time shot evaluation
- [TreatyHopper](#) Dec 2025 – Feb 2026
- Tax optimization tool combining AI agents and Dijkstra's algorithm to find the cheapest routes for global profit distribution across tax treaties

Skills

Programming Languages: Python, R, Rust, SQL, Type- and JavaScript
Frameworks & Libraries: NumPy, Pandas, scikit-learn, PyTorch, Next.js
Tools: Git(Hub), Claude (Code), Power BI