RICARDO DE DEIJN

ricardodeijn@gmail.com | linkedin.com/in/ricardodedeijn | ricardodedeijn.com | github.com/Neatherblok

SUMMARY

AI Researcher specialized in Computer Vision with 3+ years of experience in academic and industrial settings. Extensive background in developing attention-based architectures and deploying ML models in production. Published author and presenter on topics including snow detection, spatial attention, and synthetic data generation. Actively seeking AI research roles focused on vision, generative models, or model optimization. Authorized to work in the U.S.; green card eligible in 2026.

EXPERIENCE

Applied AI Engineer | Taylor Corporation | Eden Prairie, MN | Aug 2025 – Present

- Led vision research to automate printing quality checks, reducing manual labor costs by over 25%.
- Developed a PDF understanding system using classic PyTorch models such as YOLOv11 and ResNet-50 for financial charge verification, recovering 20% in cost discrepancies.

Graduate Data Intern | Taylor Corporation | Eden Prairie, MN | Sep 2024 – Aug 2025

- Created ML pipeline for fraud detection with 80% accuracy using PyTorch and Scikit-learn.
- Built an AI rule generation engine, reducing manual labor by 530+ hours and cutting costs by 95%.
- Explored synthetic data to simulate edge case behavior in financial anomaly detection.

Teacher Assistant (Research Methods) | Minnesota State University, Mankato | Aug 2023 – Aug 2024

- Supported graduate courses in research methods and undergraduate courses in database management; improved student performance by 10%.
- Held office hours for PL/SQL, T-SQL, and statistical research concept assignments.

Junior Data Scientist | YourSurprise | Zierikzee, NL | Jan 2021 – Sep 2022

- Built ELT pipelines connecting external APIs; improved dashboard load times by 10%.
- Migrated analytics workflows from ETL to real-time ELT using BigQuery and Looker.

CV Research Intern (UAV Vision) | CIMSOLUTIONS | Best, NL | Feb 2022 – Jul 2022

- Enhanced YOLO and CenterNet for UAV-based trespasser detection; boosted accuracy by 25%.
- Investigated real-time deployment options for aerial CV pipelines.

EDUCATION

Minnesota State University, Mankato

- Master of Science in Data Science | December 2024
- Relevant Coursework: Advanced AI Systems, Research Methods, Big Data

HZ University of Applied Sciences, NL

- Bachelor of Science in ICT | July 2022
- Minor: Data Science & Security | Relevant Courses: Data Science, Advanced Data Management, Lean Startup

SELECTED PUBLICATIONS & PRESENTATIONS

- Leveraging Synthetic Data from Generative Models for Snow Detection in Data-Scarce Environments | JMWAIS 2025, Issue 2
- Transformers: The Foundation of Modern AI | Data Tech Conference 2025
- Developing a Snow Detection Algorithm Using Spatial Attention | ProQuest 2024
- Cracking the Code of Snowy Sidewalk Detection | Data Tech Conference 2024
- Image Classification for Snow Detection | MWAIS 2024
- Reviewing FID and SID Metrics for GANs | AIMLA 2024

TECHNICAL SKILLS

- Languages: Python, SQL, R, PySpark, CUDA
- Frameworks: PyTorch, TensorFlow, Scikit-learn, OpenCV
- Modeling: CNNs, Spatial Attention, GAN Evaluation, Quantization, Recommender Systems
- Tools: Docker, Git, Microsoft Fabric, BigQuery, Looker, Power Automate
- Other: Agile/ CI/CD (basic), Data Visualization, Scientific Writing

AWARDS & CERTIFICATIONS

- Best Paper Award | CADSCOM Conference | Nov 2024
- 3rd Place Advanced | Data Derby | MN IT Center | Apr 2023
- Certificates: Columbia University (Camera & Imaging), DataCamp (DSA in Python)

ADDITIONAL INFORMATION

- Languages: English (fluent), Dutch (fluent), German (intermediate)
- Interests: Reading, Swimming, Biking, Trumpet, Bread Baking
- Portfolio & Publications: ricardodedeijn.com
- Relocation: Open to relocating nationwide