Louis Arts

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Skills

- **Specialisations:** Data Science, Machine Learning, Computer Vision, Astrophysics
- **Programming Languages:** Python, SQL (practising), LaTeX
- **Databases:** PostreSQL (practicing)
- **Dev Tools:** Git
- **Languages:** Dutch (native), French (fluent), English (TOEFL: 112/120)

Professional Experience

- **Applied NLP Project Intern [🌐]** *Jan 2025 – May 2025*
  LemonAI London
  - Researched linguistic noise patterns in large transcription datasets and their impact on NLP model robustness.
  - Developed hybrid rule-based/LLM-driven (Claude API) noise injection pipeline, simulating realistic linguistic variation to enhance downstream model robustness.
- **Data Science Intern [🌐]** *Feb 2023 – Apr 2023*
  SkinnyLove Belgium Antwerp
  - Architected a GPT-powered conversational recommender delivering personalised health product suggestions to boost customer engagement.
  - Led end-to-end development including Python engineering, LLM integration, prompt optimisation, and data analysis.

Education

- **MSc Data Science and Machine Learning** *Sept 2025 – Present*
  University College London London
  - Computer Vision, Statistical Data Science, Applied ML, Applied DL, Reinforcement Learning, Introduction to ML, Bayesian DL, Statistical NLP
- **MSc Physics (Astrophysics)** *Sept 2022 – Sept 2023*
  Imperial College London London
  - Research Computing Skills for Physics, General Relativity, Cosmology, Astrophysics
- **Data Science Bootcamp** *Oct 2022 – Dec 2022*
  Le Wagon Zurich
  - Data Visualisation, Data Analysis, Decision Science, Machine Learning
- **BSc Maastricht Science Programme (Physics)** *Sept 2018 – Jun 2022*
  Maastricht University Maastricht

Projects

- **Personal Project: End-to-End Mobile Eye-Tracking System Using Deep Learning** *Jul 2025 – Nov 2025*
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  - Built a scalable end-to-end data augmentation pipeline, generating over 1.5M frames for model training.
  - Designed and trained a self-architected multi-branch CNN on RunPod GPUs, achieving a 1.4 cm MAE on mobile.
  - Deployed model in a prototype real-time mobile eye-tracking app and authored a technical article on Medium.
  - This was a personal passion project done over the summer.
- **Real-Time Facial Emotion Recognition Using Transfer Learning on Pretrained CNNs** *Nov 2022 – Dec 2022*
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  - Developed a real-time facial emotion recognition system using pretrained CNN models.
  - Achieved 81% accuracy, trained on 40K+ labelled images.
  - Led a team of 3 and presented at Le Wagon Demo Day.