Nicoline Nymand-Andersen

EXPERIENCE

EUROPEAN SPACE AGENCY | Internship in Artificial Intelligence
Nov 2024 - Apr 2025 | Cologne, Germany
- → Trained highly domain-specific adapters & performed hyperparameter optimisation, for high-stake mission-operations enhancement.
- → Collaborated in fast-paced AI crew companions project to identify pain-points & research state-of-the-art technologies to explore future enhancements.

TÉLÉCOM PARIS | Research Internship in Machine Learning
Apr 2024 - Oct 2024 | Paris, France
- → Analysed the inefficiencies of the Nearest Neighbour Chain clustering algorithm.
- → Designed the K-Nearest Neighbour Chain algorithm, using on-the-fly distance computations, significantly improving time & space complexity.

PROCESSAND | Data Scientist
Nov 2020 - Dec 2022 | Munich, Germany
- → Created ETL-pipelines using SQL, developing complex data models & analyses.
- → Automated frontend design, extraction-, transformation & datamodel schedules in Python, amounting to 400k savings per year for client.

SIF JAKOBS JEWELLERY | German Digital Online Coordinator
Aug 2018 - Dec 2019 | Copenhagen, Denmark
- → Managed the implementation of social media marketing in 5 countries.
- → Translations in Danish, German, English and French.

EUROPEAN CENTRAL BANK | Intern in the Directorate General Information Systems
Jul 2018 | Frankfurt, Germany
- → Prototyped human-centric design for new information system.

EDUCATION

TECHNICAL UNIVERSITY OF MUNICH | Double Degree in M.Sc. Computer Science | GPA 3.4
Sep 2022 – Aug 2025 | Munich, Germany
- → **Relevant Courses:** Cloud, Foundation Models, Computer Vision, Quantum Computing
- → **Projects:** Generative Spacecraft Design, avoiding hallucinations using RAG

INSTITUT POLYTECHNIQUE DE PARIS | Double Degree in M.Sc. Data and AI | GPA 3.96
Sep 2023 – Dec 2024 | Paris, France
- → **Relevant Courses:** Machine-, Deep- and Reinforcement Learning, NLP
- → **Projects:** Defense against the Deepfake Arts, News Headline Generation

LUDWIG-MAXIMILIANS-UNIVERSITY | Student in B.Sc. Computer Science | GPA 3.4
Oct 2020 – Aug 2022 | Munich, Germany
- → **Relevant Courses:** Algorithms, Complexity, Databases, Distributed Systems

UNIVERSITY OF COPENHAGEN | Degree in B.A. Communication and IT
Exchange at University of California, San Diego | GPA 3.8
Sep 2017 – Jun 2020 | Copenhagen, Denmark
- → **Thesis Grade:** 12/12
- → **Relevant Courses:** Making Policy with Data, Data Science, Calculus, Interaction Design

PUBLICATIONS

Nymand-Andersen, N., Bonald, T., Ghawi, R., Laclau, C., Pfeffer, J. The K-NN Chain Algorithm: Scalable Hierarchical Agglomerative Clustering through Dynamic Nearest Neighbour Calculations. Submitted to ECMLPKDD 2025.

Mathur, A., Ivanova, I., Nymand-Andersen, N., Holzenberger, N. Defense Against the Deepfake Arts. Submitted to Interspeech 2025.

CONTACT DETAILS

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 Github Repository
 LinkedIn Profile
 Portfolio

SKILLS

PROGRAMMING

5+ years Python
5+ years SQL
5+ years R
3 years LaTeX
2 years JS, CSS, HTML
1 year C++
1 year Java

LIBRARIES/FRAMEWORKS

PyTorch • Huggingface • Qiskit • Sklearn • Tensorflow • LangChain • SciPy

ANALYSIS/PLATFORMS

Tableau • Celonis • WEKA • Git • Pinecone

LANGUAGES

Fluent:
English • German • Danish

Other:
French C1 • Spanish A2

SOFT-SKILLS

Pair-programming • Critical Thinking • Proactive • Team-player • Quick-learner

VOLUNTEERING

Bureau des élèves IP Paris
Sep 2023 onw.

Student Cafe - Studenterhuset
Feb 2019 - Nov 2019

Mentor for international Students - QA Programme
Dec 2017 - Dec 2018

INTERESTS

Ballet • Contemporary dance Cycling • Skiing • Philosophy • Reading